

# JVC

## SERVICE MANUAL

### MICRO COMPONENT SYSTEM

### UX-A4 B/E/G/GI/EN



**COMPACT  
disc  
DIGITAL AUDIO**

#### Area suffix

|          |                    |
|----------|--------------------|
| B .....  | U.K.               |
| E .....  | Continental Europe |
| G .....  | Germany            |
| GI ..... | Italy              |
| EN ..... | Northern Europe    |

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# 1. Safety Precautions

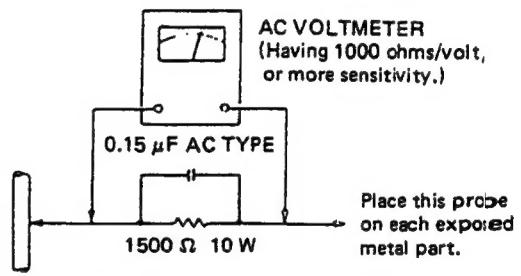
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety — related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by (  ) on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps , tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

After re — assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particulary any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a  $0.15 \mu F$  AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particulary any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.). This corresponds to 0.5mA AC(r.m.s.).



## Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

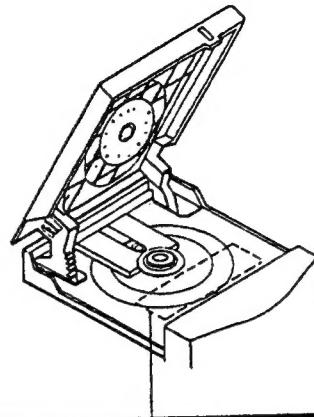
## 2. Safety Precaution about UX – A4

### IMPORTANT FOR LASER PRODUCTS

#### PRECAUTIONS

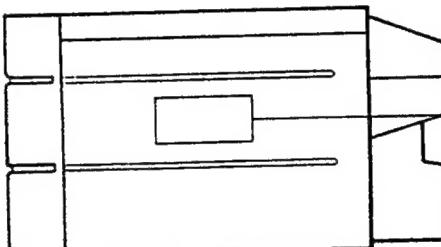
1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD door is open. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. CAUTION: The laser is able to function, if safety switches are out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

### REPRODUCTION OF LABELS AND THEIR LOCATION



**ADVARSEL-Der vil udstråles osynlig laserstråling når apparatet åbnes og låsesmekanismen frigøres.  
UNDGA AT BLIVE UDSET FOR LASERSTRÅLING.**

**DANGER-Invisible laser radiation when open and interlock defeated.  
AVOID DIRECT EXPOSURE TO BEAM.**



CD player/tuner section

**CLASS 1  
LASER PRODUCT**

**Obs:**  
Apparaten innehåller laser-komponent av högre laserklass än klass 1.

#### IMPORTANT (in the United Kingdom)

##### Mains Supply (AC 240 V~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

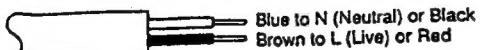
BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

#### IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:



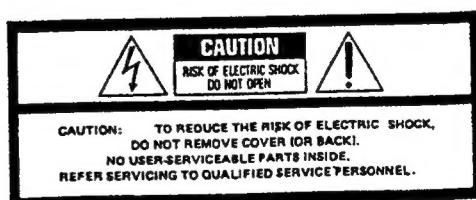
As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

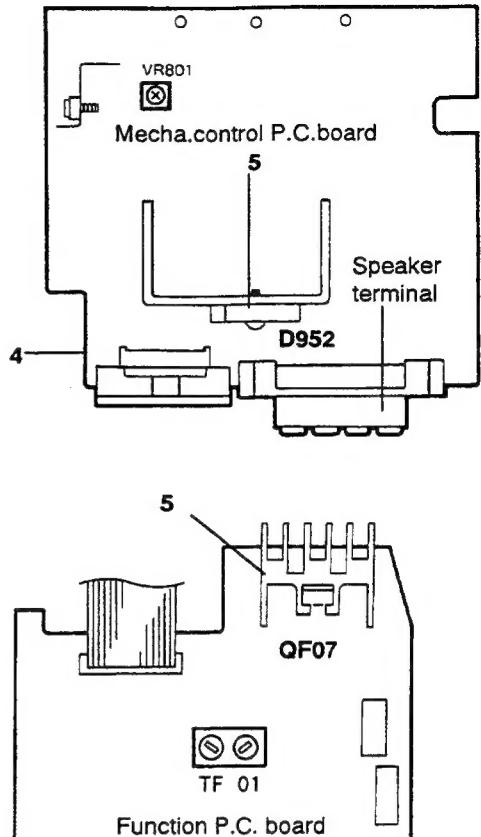
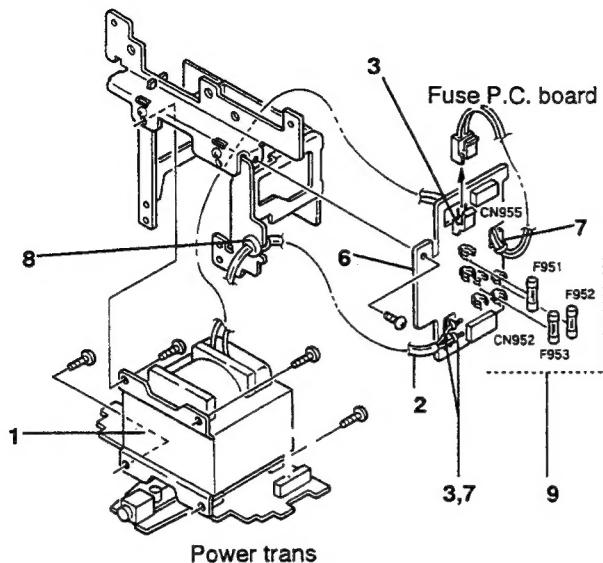
**WARNING:  
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,  
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR  
MOISTURE.**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



#### ■ Important points for safety management

1. Check "VTP66J2 – 24D ( UX – A4 E/G/GI/EN )", "VTP66T2 – 12D ( UX – A4 B )" of power transformer and make sure that any bolt is not loosened.
2. Check the power source cord indication " $\triangleleft$  VDE  $\triangleright$  (UX – A4E/G/GI/EN)", "SASEC: BS6500(UX – A4B)" of attachment plug "KP – 419C or SE – 1(UX – A4 E/G/GI/EN )", "KP – 610, 3A or SE – 5, 3A(UX – A4B)" and make sure that the cord is free from any defect(Damage).
3. ① Concerning the primary terminal and the adjacent secondary terminal on the print circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.  
② The tab for winding the power cord must be twisted and soldered to prevent disconnection.  
③ The lead of the power cord must be wound around the tab and soldered the spatial distance must be 3.2mm or more.

5. Since the following parts are exothermic, make sure that such parts will not come into contact with any electrolytic capacitor, wire and other parts.  
ICA05, ICA06, IC502, IC701, D952, Q808, QF02, R867, R857, RF38 and heat sink are exothermic parts.
6. Any wire, etc. should be clamped or bonded as indicated in the above diagram so that such wire will not be positioned close to any exothermic parts.
7. Wires must be clamped or secured at the locations shown in the figure so that the wire do not touch to live parts moving part, hot part, or sharp edges.
8. By using the special tool , attach the power cord bushing to the position where "4N – 4" is marked.
9. Set and firmly fix the fuses F951, F952 and F953 respectively to T400mA, T6.3A and T6.3mA after confirming the respective positions.

### 3. Features

1. Disc-size micro component system consisting of 4 units
2. Active Hyper-Bass circuit for low-frequency sound reproduction
3. Sound mode control (Beat, Vocal, Instrument)
4. One touch operation (COMPU PLAY)
  - When a source button (CD, tape, or tuner) is pressed, the unit's power is turned on and initiates the playback even when the power is set to STANDBY.
5. 35-key remote control unit opens and closes the motor-driven CD door, and operates the usual CD, cassette deck and tuner functions
  - The remote control operates the power ON/OFF switching, volume control, bass/treble control, sound mode control, Active Hyper-Bass ON/OFF switching, and a variety of editing functions.
6. Multi-function CD player
  - Capable of auto-edit recording and programmed play.

7. U-Turn auto-reverse full-logic mechanism with Dolby® B NR
    - Auto tape select mechanism.
    - Metal (type IV) and CrO<sub>2</sub> (type II) tape can be played back for superior tone quality.
    - CrO<sub>2</sub> (type II) tape recording capability
    - Music scan\*\* in forward or reverse direction
  8. 2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM (MW/LW)) preset capability
    - Seek/manual tuning.
    - Auto preset tuning
  9. Timer/Clock function
    - Timer on/off with preset volume function.
    - Wake-up volume setting with 50 different levels.
    - Sleep timer can be set for up to 120 minutes.
- \* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol  are trade-marks of Dolby Laboratories Licensing Corporation.
- \*\* Under license of Staar S.A. Brussels, Belgium.

### 4. Specifications

#### Compact disc player section

|                           |                              |
|---------------------------|------------------------------|
| Type                      | : Compact disc player        |
| Signal detection          | : Non-contact optical pickup |
| Number of channels        | : 2 channels                 |
| Frequency range           | : 20 Hz - 20,000 Hz          |
| Dynamic range             | : 86 dB                      |
| Signal-to-noise ratio     | : 86 dB                      |
| Total harmonic distortion | : 0.03 %                     |
| Wow & flutter             | : Less than measurable limit |

#### Radio section

|                  |   |
|------------------|---|
| Frequency ranges | : FM 87.5 - 108 MHz<br>AM: (MW) 522 - 1,629 kHz<br>(LW) 144 - 288 kHz       |
| Antennas         | : Loop antenna for AM (MW/LW)<br>External antenna terminal for FM (75 ohms) |

#### Tape deck section

|                    |   |
|--------------------|---|
| Track system       | : 4-track 2-channel stereo  |
| Motor              | : Electronic governor DC motor (capstan x 1, reel x 1)  |
| Heads              | : Hard permalloy head for recording/playback, 2 gap ferrite head for erasure (Combination head) |
| Frequency response | : 50 - 15,000 Hz (with metal tape)  |
| Wow and flutter    | : 0.09 % (WRMS)   |
| Fast wind time     | : Approx. 120 sec (C-60 cassette)   |

#### Speaker section (each unit)

|              |  |
|--------------|--|
| Speaker      | : 12 cm x 1 (Woofer)<br>5 cm x 1 (Tweeter)   |
| Dimensions   | : 160(W) x 251(H) x 203(D) mm  |
| Weight       | : Approx. 2.2 kg   |
| General      |  |
| Power output | : Max. 40 W (20 W + 20 W)<br>at 4 Ω<br>28 W (14 W + 14 W) at 4 Ω<br>(10 % THD)                                   |
| Output jacks | : Speaker x 2 (matching impedance 4 Ω - 16 Ω)<br>Headphones (0 - 30 mW/32 Ω)<br>(matching impedance 16 Ω - 1 kΩ) |

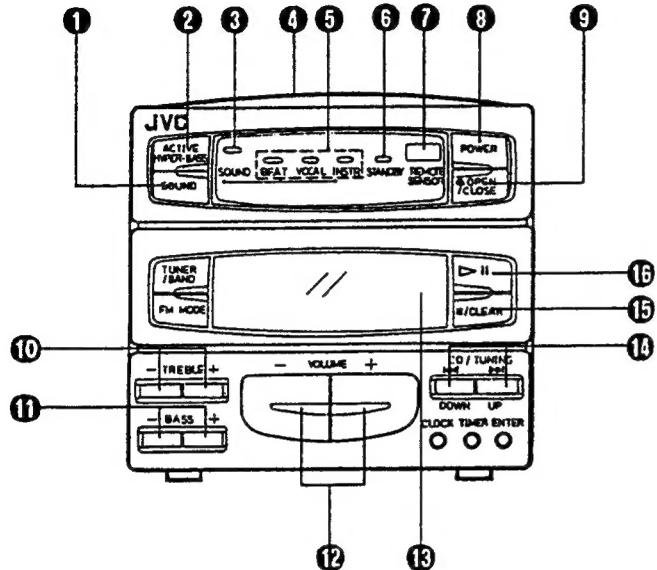
|                      |  |
|----------------------|--|
| Power supply         | : AC 240 V, 50/60 Hz, (UX-A4B)<br>AC 230 V, 50/60 Hz, (UX-A4E/GI/EN)<br>Ext. DC 12 V (car battery via optional CA-R120E car adapter)   |
| Power consumption    | : 66 W (with POWER SW ON)<br>4 W (with POWER SW STANDBY)   |
| Dimensions           | : 458.5(W) x 255(H) x 208(D) mm including knobs  |
| Weight               | : Approx. 8.9 kg   |
| Accessories provided | : Remote control unit (RM-RXUA4)<br>x 1<br>Battery "R6" x 2 (for the remote control)<br>FM feeder antenna x 1<br>Loop antenna stand x 1<br>Speaker cord x 2<br>Antenna adapter x 1 |

Design and specifications are subject to change without notice.

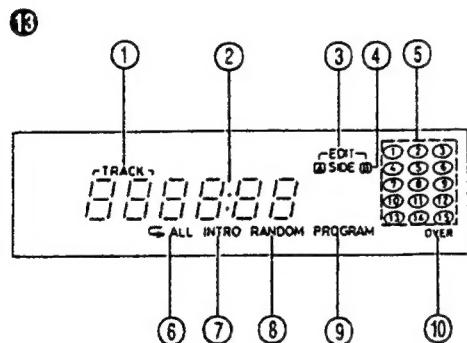
## 5. Instructions (Extract)

### NAMES OF PARTS AND THEIR FUNCTIONS

#### CD player/General section

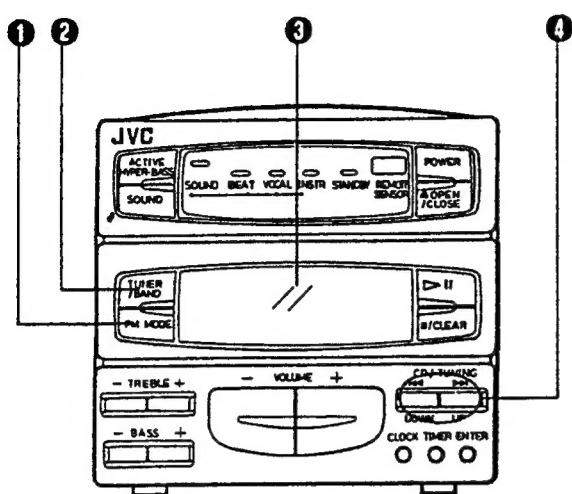


- ① SOUND button
- ② ACTIVE HYPER-BASS button
  - on: The ACTIVE HYPER-BASS Indicator will light. Set to this position to listen to the ACTIVE HYPER-BASS sound.
  - off: The ACTIVE HYPER-BASS indicator goes out. Set to this position when ACTIVE HYPER-BASS sound is not required.
- ③ Active Hyper-Bass indicator
- ④ CD door
- ⑤ Sound mode indicators (BEAT/VOCAL/INSTR.)
- ⑥ Power STANDBY indicator
- ⑦ REMOTE SENSOR section
- ⑧ POWER button
  - Press to switch the power on or off.
- ⑨ CD door OPEN/CLOSE button ( $\Delta$ )



- ⑩ TREBLE buttons (+,-) (control range from -6 to 6)
- ⑪ BASS buttons (+,-) (control range from -6 to 6)
- ⑫ VOLUME buttons
  - +: Use to increase the volume
  - : Use to decrease the volume
  - (control range from VOL 0 to VOL 50)
- ⑬ Display window
  - ① Function/Track number display
  - ② Playback time display
  - ③ EDIT recording mode indicator
  - ④ SIDE (A)/(B) indicator
  - ⑤ Music calendar display
  - ⑥ Repeat playback indicator
  - ⑦ INTRO scan indicator
  - ⑧ RANDOM playback indicator
  - ⑨ PROGRAM mode indicator
  - ⑩ OVER indicator
- ⑭ CD SEARCH buttons ( $\blacktriangleleft$ ,  $\triangleright$ ): Press to locate the beginnings of tunes and to start forward and reverse search operations.
- ⑮ Stop/CLEAR button (■): Press to stop playing a disc and to cancel programmed playback. This also sets the CD mode.
- ⑯ Play/pause button ( $\triangleright\ddot{\imath}$ ): Press to play a disc and to stop temporarily.

## Tuner/Deck section



① FM MODE button

② TUNER/BAND button

Press to select the tuner mode.

Press to select the band (FM/AM (MW/LW)).

③ Display window

① Band indicator (FM/AM (MW/LW))

② Radio frequency display

③ MONO indicator

④ STEREO indicator

⑤ Preset station display

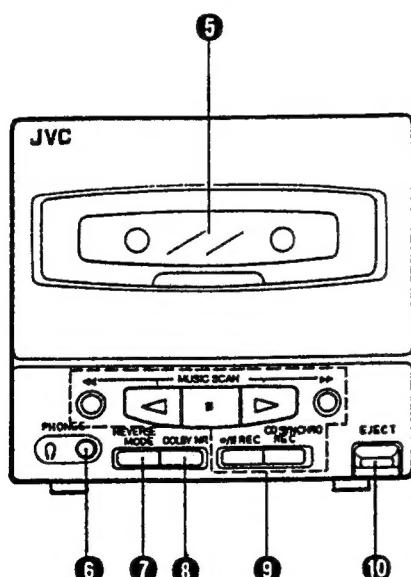
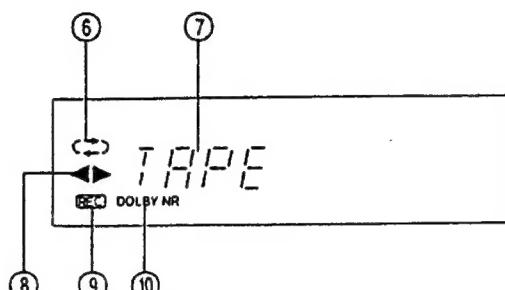
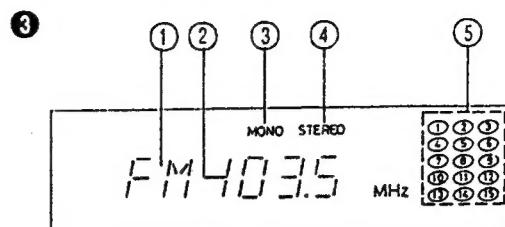
⑥ Reverse mode indicator (↔ / ↔ / ↔)

⑦ Tape mode display

⑧ Tape direction indicator (◀, ▶)

⑨ Recording indicator (REC)

⑩ DOLBY NR indicator (DOLBY NR)



④ Tuning button (UP/DOWN)

⑤ Cassette holder

⑥ Headphones jack (PHONES) (3.5 mm dia. stereo mini)  
Connect headphones (impedance 16Ω - 1kΩ) to this jack. The speakers are automatically switched off when the headphones are connected.

⑦ REVERSE MODE switch

↔ : For single-side recording or playback

↔ : For both-sides recording or playback

↔ : For continuous play

⑧ DOLBY NR button

Set to ON when recording or playing back tapes using the noise reduction system.

⑨ Cassette operation buttons

◀ : Press to fast wind the tape from right to left/Music scan.

◀ : Press to play back the tape in the reverse direction.

■ : Press to stop the tape.

This also sets the TAPE mode.

▶ : Press to play back the tape in the forward direction.

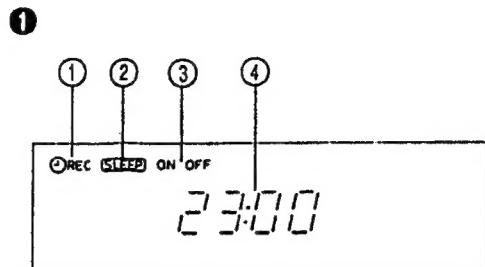
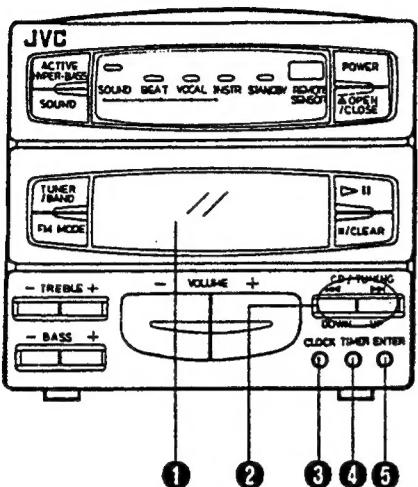
▶ : Press to fast wind the tape from left to right/Music scan.

●/II REC : Press to set the unit to the record or record-pause mode.

CD SYNCHRO REC : Press to start CD edit recording/synchro recording.

⑩ EJECT button

## Clock/Timer section

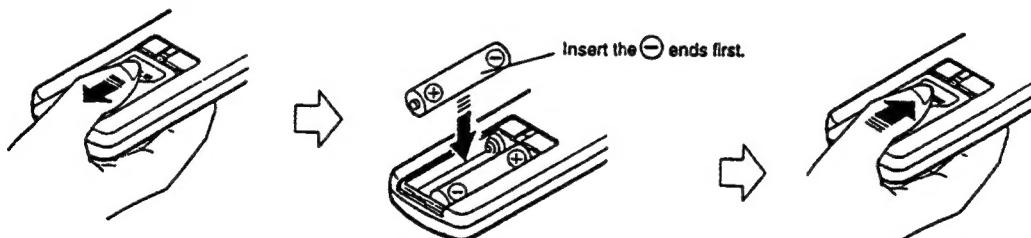


- ① Display window
- ① Timer mode indicator
- ② SLEEP indicator
- ③ Timer indicator (ON/OFF)
- ④ Time display
- ② UP/DOWN buttons
- Set the time or timer setting.
- ③ CLOCK button
- Set the time and current time displays.
- ④ TIMER button
- Set the timer setting or timer ON/OFF (to reset or cancel the timer).
- ⑤ ENTER button
- Register the time or timer setting.

## REMOTE CONTROL UNIT

## Preparation before use

- Installing batteries in the remote control unit
- 1. Remove the battery cover from the back of the remote control unit.
- 2. Insert two "R6" size batteries.
  - Insert the batteries with the + and - terminals matching the indication inside the battery compartment.



## 3. Replace the cover.

- Battery replacement  
When the remote control operation becomes unstable or the distance from which remote control is possible becomes shorter, replace the batteries with new ones.

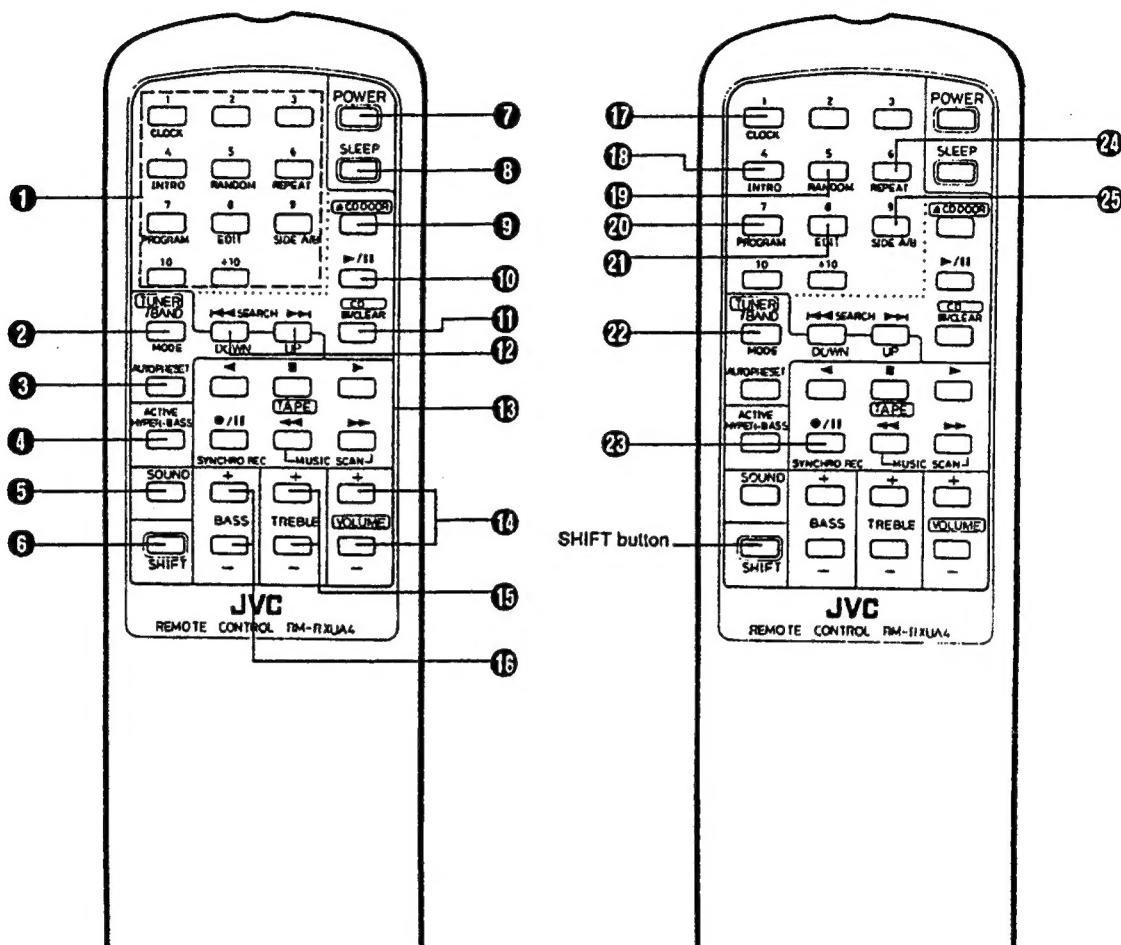
## Using the remote control unit

To use the remote control unit, point it at the REMOTE SENSOR and press the buttons gently and firmly. Remote control operation is possible within about 7 m (approx. 23 ft). However, since the remote control range is less when the unit is used at an angle, use directly in front of the REMOTE SENSOR, as far as possible.

Do not expose the REMOTE SENSOR to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the REMOTE SENSOR and the remote control unit.

The following operations can be performed using the remote control unit.

- Check the functions of the operation buttons carefully and operate them correctly.

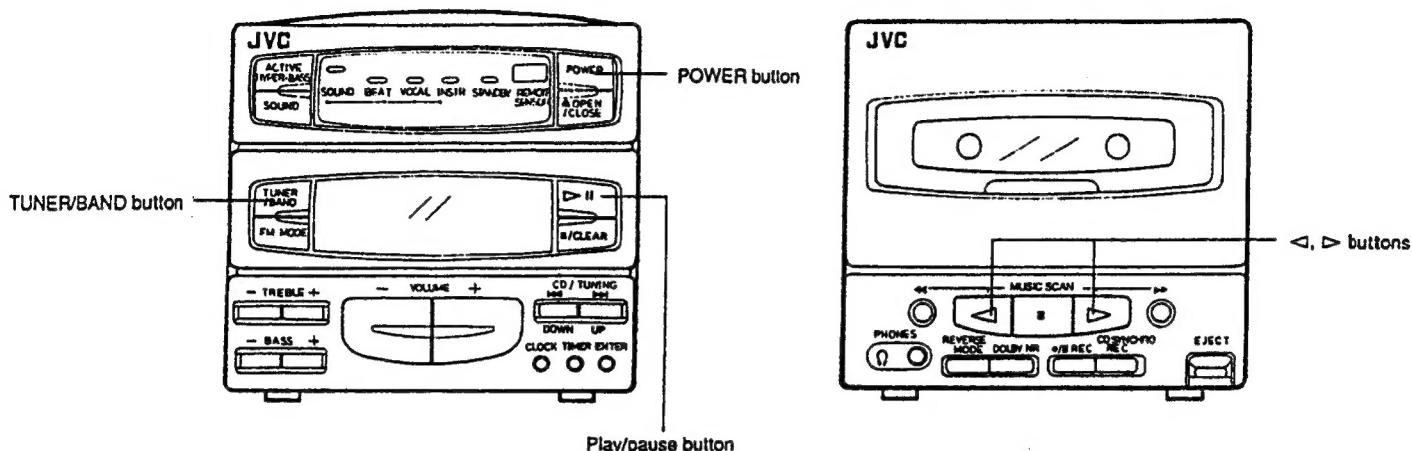


- ① Track (tune) number buttons (No.1 – No.10, +10)
- ② TUNER/BAND button
- ③ AUTO PRESET button
- ④ ACTIVE HYPER-BASS button
- ⑤ SOUND button
- ⑥ SHIFT button
- ⑦ POWER button
- ⑧ SLEEP button
- ⑨ CD DOOR button (▲)
- ⑩ CD ▶/II: CD mode/play/pause button
- ⑪ ■/CLEAR:stop/clear button
- ⑫ CD SEARCH/DOWN and UP button (◀◀, ▶▶)
  - In the CD mode, to scan to the beginning of a tune and to start forward or reverse search.
  - In the tuner mode, to tune to broadcasts.
- ⑬ Cassette operation buttons
  - ◀ : Play button (reverse direction of tape)
  - : Stop button
  - ▶ : Play button (forward direction of tape)
  - : Record/Record-pause button
  - ◀▶ : Fast wind (from right to left)/Music scan button
  - ▶▶ : Fast wind (from left to right)/Music scan button
- ⑭ VOLUME buttons (+,-)
- ⑮ TREBLE buttons (+,-)
- ⑯ BASS buttons (+, -)

Press the following buttons while holding down the SHIFT button ⑥.

- ⑰ CLOCK button  
Use to display a current time.
- ⑱ INTRO button
- ⑲ RANDOM button
- ⑳ PROGRAM button
- ㉑ EDIT button
- ㉒ MODE(STEREO/AUTO/MONO) button
- ㉓ SYNCHRO REC button
- ㉔ REPEAT button
- ㉕ SIDE A/B button

## SWITCHING THE POWER ON/OFF



### Switching the power on/off

- Switching on:



The indicator goes out.

- The indicator in the display window lights.

### COMPU PLAY

Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

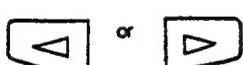
#### Function mode



CD

#### Operations

When this button is pressed with a CD loaded, CD playback begins.



TAPE

When this button is pressed with a tape loaded, tape playback begins.



TUNER

When this button is pressed, the tuner is engaged.

When the CD door OPEN/CLOSE button ( $\Delta$ ) is pressed, the source sound does not switch over, the CD door can open or close.

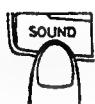
#### Notes:

1. When switching off the power, be sure to press the power button.
2. The COMPU PLAY button on the remote control has the same function as the UX-A4.
3. When the CD door opens and the Play/pause ( $>\text{II}$ ) button is pressed, the CD door closes and the CD play starts.

### Sound mode button

The UX-A4 has three preset sound modes (BEAT, VOCAL, INSTR.). These modes can be selected to enhance the type of music being played.

- Press the SOUND button to select Sound mode. Each time the SOUND button is pressed, Sound mode changes as follows;



No display mode → BEAT → VOCAL → INSTR.



- When INSTR. mode is selected, Active-Hyper Bass sound is automatically switched ON.

### Sound mode selection

#### BEAT:

Set to this position for music with a heavy beat, such as rock or disco music.

#### VOCAL:

Set to "VOCAL" for popular or vocal music.

#### INSTR.:

Select this position for background and instrumental music.

#### Note:

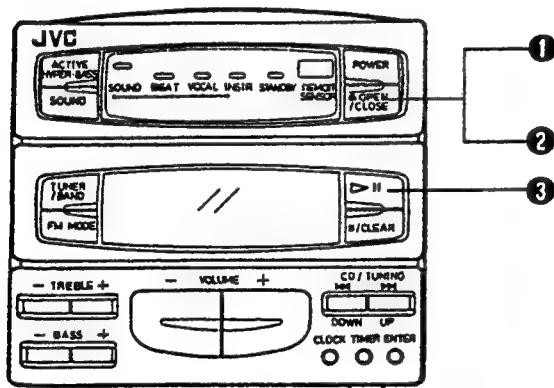
When the BASS or TREBLE button is pressed in any sound mode, No Display mode is selected automatically.

## PLAYING COMPACT DISCS



**Playing an entire disc ...** The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

Operate in the order shown



- Press to open the CD door. (The power is switched on.)
- Load a disc with the label side facing up. Press to close the CD door. (The door can be closed by pressing the > II button.)
- Press to start play.
  - As tunes are played, their track numbers go out one by one.

- After loading a CD, simply press the > II button to switch on the power and start CD playback.

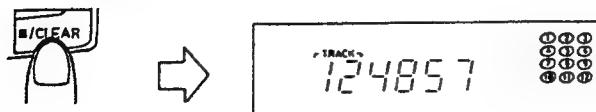
• 8-cm (3-3/16") compact discs can be used in this unit without an adapter.

#### Note:

When the CD door is closed by pressing the > II button, the CD starts as soon as the CD door is closed.

### To stop play

- To stop in the middle of a disc  
During playback, press the ■/CLEAR button to stop play.



- To stop a disc temporarily  
Press the > II button to stop play temporarily and the playing time blinks. When pressed again, play resumes from the point where it was paused.

#### Caution:

- To change discs, press the ■/CLEAR button; check that the disc has stopped rotating completely before unloading it.

- The total number of tracks (tunes) and total playing time are displayed.

**Notes:**

- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down.  
In such a case, check the disc and insert again after cleaning the disc or turning it over.



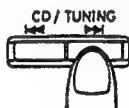
- Do not use the unit at excessive high or cold temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).**
- After playback, unload the disc and close the CD door.
- If mistracking occurs during play, lower the volume.
- Mistracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

**Skip playback**

- During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played or the previous tune; when the beginning of the required tune has been located, play starts automatically.

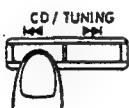
To listen to the next tune ...

Press the **▶▶I** button once to skip to the beginning of the next tune.



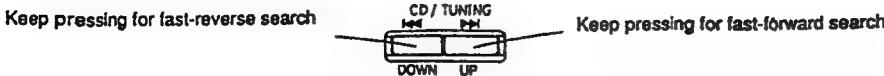
To listen to the previous tune ...

Press the **I◀** button to skip to the beginning of the tune being played back and press again to skip to the beginning of the previous tune.



### Search playback (to locate the required position on the disc)

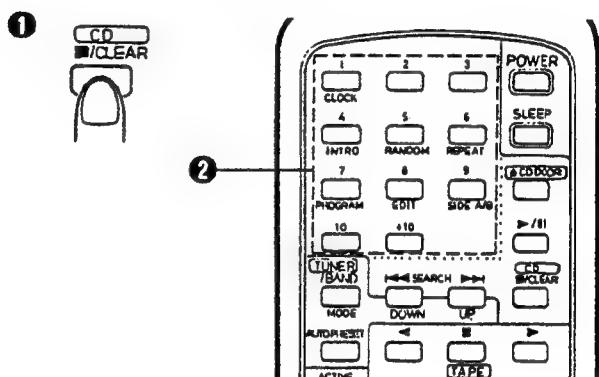
- The required position can be located using fast-forward or reverse search while playing a disc.



- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

**Direct access playback (using the remote control)**

- Pressing any of the track number buttons will start play from the beginning of the designated tune, without your having to press the **CD ▶/II** button. (This function cannot be used during programmed play.)



- Press the **■/CLEAR** button to set to the CD mode.
- Designate the required tune using the track number buttons.

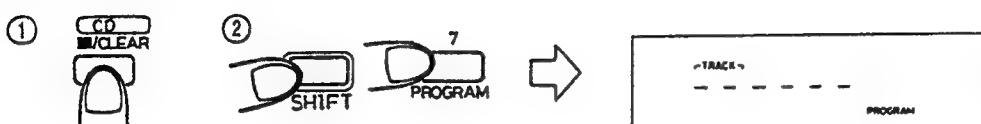
- To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number.
- To designate tune number 11 or higher, press the **+10** button the required number of times, then the track number button. (Example: To designate the 20th tune, press the **+10** button once, then press track number button 10.)

**+10 button:**  
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

- To skip to another tune during play**  
When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

#### **Programmed play (using the remote control)**

- Up to 20 tunes can be programmed to be played in any required order.  
The total playing time of programmed tunes is displayed (up to 99 minutes, 59 seconds).  
(Example: When programming the 2nd tune to be played first, the 6th tune next, and then the 12th tune, etc.)



**To designate the 2nd June.**

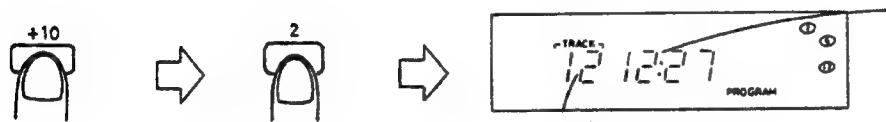


- ① Press the ■/CLEAR button.
  - ② Press the PROGRAM button while pressing the SHIFT button to set to the programming mode.
  - ③ Press to designate the required track number.
  - ④ Designate the remaining tunes by pressing the track number buttons.
  - ⑤ Press the ►/II button when programming is completed. Programmed playback starts.



To clear the programmed tunes ...  
Press the ■/CLEAR button before playing a disc. During programmed playback, press this button twice. When the CD door is opened, programmed tunes are cleared automatically.

To designate the 12th tune.



The total playback time of programmed tunes is displayed.



To confirm the details of a program...

To confirm the details of a program....  
Press the PROGRAM button while pressing the SHIFT button; the tones making up the program will be displayed in programmed order.



①  
TRACK  
02P-0 /  
PROGRAM

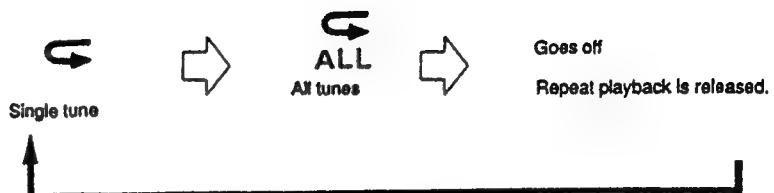
### **Notes:**

1. If the total playing time of the programmed tunes exceeds 99 minutes 59 seconds, the total playing time indication will go out.
  2. Programming 21 or more tunes is impossible.
  3. When a disc with 16 or more tunes is loaded, the "OVER" indicator will appear.
  4. When a track number that is higher than 21 is programmed for a disc which contains more than 21 tunes, the track No. is displayed, however, "-:-" is shown in the total playback time.
  5. When performing timer playback in the order of "Programmed play", step ③ above is not required.

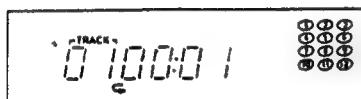
### Repeat play (using the remote control)

Press the REPEAT button while pressing the SHIFT button before or during play. A single tune or all the tunes can be repeated.

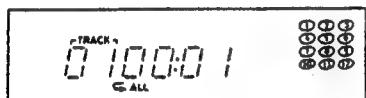
Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed while pressing the SHIFT button, the mode will change from a single tune (  $\square$  ), to all the tunes (  $\square$  ALL), to the clear mode, in this order.



- Repeat playback of a single tune (  $\square$  )  
The tune being played back will be heard repeatedly.



- Repeat playback of all tunes (  $\square$  ALL)  
When playing back an entire disc or programmed tunes, all tunes or the programmed tunes will be heard repeatedly.



### Random playback (using the remote control)

Press the RANDOM button while pressing the SHIFT button, all tunes on a disc are played once, in random order.



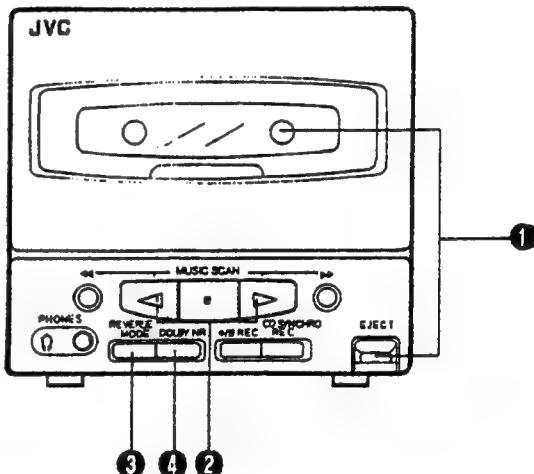
### INTRO scan operation (using the remote control)

- Simply press the INTRO scan button while pressing the SHIFT button to play the first 15 seconds of each tune. The operation is released after playing the introductions of all tunes or all programmed tunes.
- If the INTRO scan button is pressed in the middle of a tune while pressing the SHIFT button, the intro scan operation will start from the next tune.
- To release the intro scan mode, press the INTRO scan button again while pressing the SHIFT button and normal playback (or programmed playback) will resume.



### CASSETTE PLAYBACK

Operate in the order shown



- ① Load a cassette tape with side A facing out.
  - ② Press to start playback. (The power is switched on and the TAPE mode is engaged to start the tape playback.)
  - ③ Select the reverse mode (  $\square$  /  $\square$  /  $\square$  ).
  - ④ Set the DOLBY NR switch as required.
- After loading a cassette tape, simply press the  $\square$  or  $\square$  button. The power is switched on and the tape starts playback.
  - When the tape is played back with the reverse mode set to the  $\square$  (single side play) or  $\square$  (both side play) mode, the tape stops automatically at the end of tape after playing one side or both sides.

## Music scan

- The beginning of the current tune or the next tune can be located using the music scan facility.
- ① Press the ▶ or < button for tape playback.  
 ② Press the ►► or ◀◀ button for music scan.

- ③ When music scanning is completed, playback will start automatically.
- To skip two tunes or more, repeat the above steps ② and ③.

### Notes:

With the following types of tape, the Music Scan mechanism may not operate correctly. This is not a malfunction; use the Music Scan facility only with suitable tapes.

- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portion during tunes.
- Tapes with short non-recorded sections.
- Tapes with high-level noise or hum between tunes.

- To the start of the next tune
- To the start of the tune being played back

(Forward (▶) direction playback)



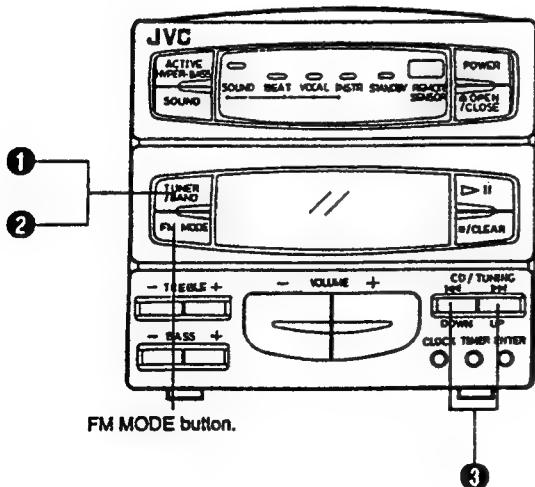
(Reverse (<) direction playback)



The tape direction indicators blink during music scanning.

## RADIO RECEPTION

Operate in the order shown



- ① Press the TUNER/BAND button.  
 • The power is switched on and a band and radio frequency will be shown in the display.  
 ② Select the band (FM or AM (MW/LW)).  
 ③ Tune to the required station.

### FM MODE button

#### AUTO:

Set to this position when listening to or recording an FM stereo broadcast. The STEREO indicator lights when the FM stereo broadcast is received.

#### MONO:

Set to this position when FM stereo reception is noisy.

#### • Seek tuning

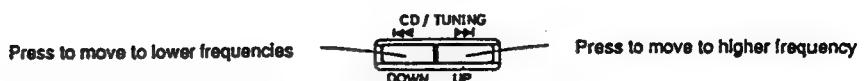
Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies, and when the broadcast is received, it stops tuning automatically and the broadcast can be heard.

In AM operation, the frequency moves continuously from the MW to the LW band and vice versa.

- **Manual tuning**

Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is in steps of 50 kHz for FM and 9 kHz for AM (MW/LW).

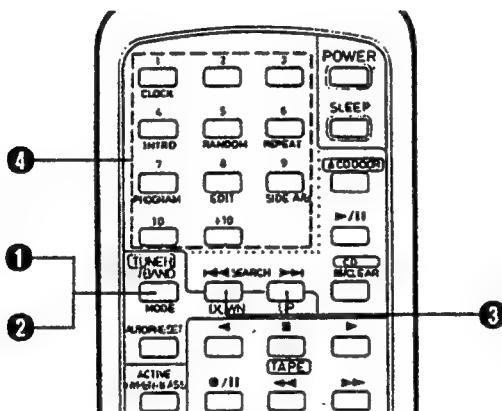
In AM operation, the frequency moves continuously from the MW (522 - 1,629 kHz) to the LW (144 - 288 kHz) band and vice versa.



### Auto preset tuning (using the remote control unit)

This function scans the current band (FM or AM (MW/LW)), detecting frequencies used to broadcast signals, and stores the first 15 frequencies in memory automatically.

- Press the AUTO PRESET button. The frequencies of stations broadcasting signals can be preset automatically in the order of increasing frequency.(15 stations in each band (FM and AM (MW/LW)).



### Preset tuning (using the remote control unit)

- ① Press the TUNER/BAND button
- ② Select the band (FM or AM (MW/LW)) using the TUNER/BAND button.
- ③ Press the required preset station buttons (No.1 - No.10, +10).
- The preset station number and frequency corresponding to the button pressed are shown.

### Using the antennas

**FM:** Connect the provided FM feeder antenna  
(see page 7).

**AM (MW/LW):** Adjust the position of AM (MW/LW)  
loop antenna.

### Notes:

- When seek tuning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER/BAND button is pressed, the same station will be heard.

### Presetting stations (using the remote control unit)

15 stations in each band (FM and AM (MW/LW)) can be preset as follows:

- Example (when presetting an FM station broadcasting at 103.5 MHz to preset button "15")



- ① Press the TUNER/BAND button.
- ② Select the FM band using the TUNER/BAND button.
- ③ Tune to the required station.
- ④ Press preset button "+10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been preset.)

- Repeat the above procedure for each of the other stations, using a different preset button each time.
- Repeat the above procedure for the AM (MW/LW) band.

- To change preset stations  
Perform step ④ above after tuning to the required station.

### Notes:

- The previous preset station is erased when a new station is set as the new station's frequency replaces the previous frequency in memory.
- When listening to an AM (MW/LW) broadcast, noise may be heard if the remote control is used.
- All preset stations will be erased when the power cord is disconnected or a power failure occurs for more than 24 hours. In such cases, preset them again.

**RECORDING**

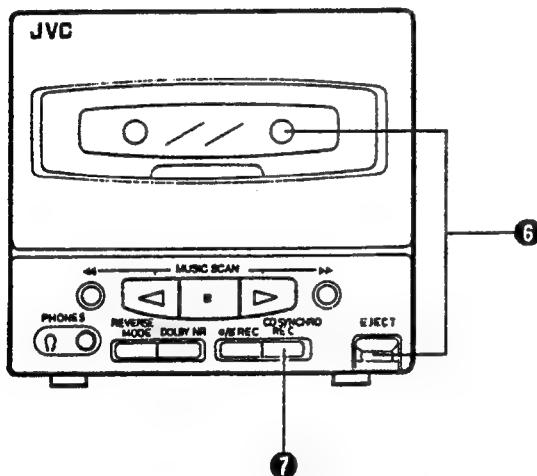
- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

**Notes:**

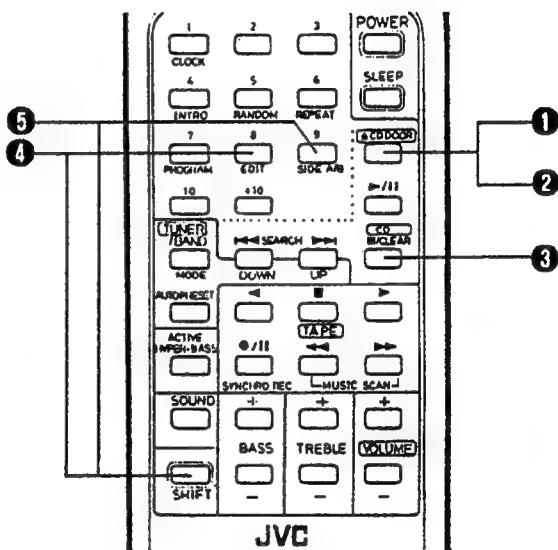
This unit has recording characteristics suitable for normal and CrO<sub>2</sub> tapes. Normal and CrO<sub>2</sub> tapes have different characteristics from metal tape.

**CD edit recording (for CDs with up to 20 tunes)**

- By checking the total playing time of the CD, a microcomputer in the unit automatically calculates the optimum length (recording time) of the tape to be used, displays the required tape length, and divides the tunes on the disc into two groups to be recorded on the two sides of the tape so as to minimize tape waste.

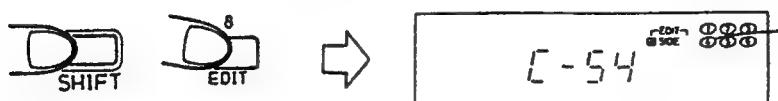


Operate in the order shown



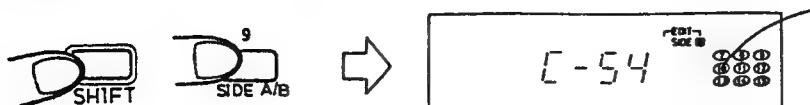
- ① Press to open the CD door. (The power is switched on.)
- ② Load a disc and press to close the CD door.
- ③ Set to the CD mode.

- ④ Press the EDIT button while pressing the SHIFT button.



The tune numbers recorded on side A appear.

- ⑤ Press the SIDE A/B button while pressing the SHIFT button.



The tune numbers recorded on side B appear.

- ⑥ Insert a cassette with a suitable length (recording time) with side A facing out.
  - The tape length can be set from the remote control. (See below.)
- ⑦ Press the CD SYNCHRO REC button to start CD edit recording.
  - Recording starts in the forward direction (on the side facing out).
  - During edit recording, the leader tape section (approx first 10 sec.) is wound automatically and then recording starts. The reverse mode is set to  $\Rightarrow$  mode automatically.
  - The tape stops automatically when the CD has been played.

• To change the tape length (recording time)

When the EDIT button is pressed while pressing the SHIFT button with a CD loaded, the tape length required to record the entire disc is displayed (C-46, C-54, C-60, C-74 or C-90).

At this time, the displayed tape length can be changed by pressing the track number buttons.

**Example: To change to C-50**

Press the +10 button four times, and within 10 seconds, press the 10 button.

When the length of the tape is changed, some of the tunes that were to be recorded on side A may be indicated as to be recorded on side B or vice versa, according to the tape length specified.

Depending on the tape length specified, some tunes may not be recorded on the tape. Set the tape length (recording time) so that the entire disc can be recorded.

- When editing a disc with 16 to 20 tunes  
CD editing can be used to record discs containing up to 20 tunes, however, the music calendar shows up to only 15 tunes.

As the 16th to 20th tunes will not appear in the music calendar display (the "OVER" indicator will light), be sure to check the tunes you have recorded after completing editing.

- Set the DOLBY NR as required. The DOLBY NR indicator lights.

**Note:**

The optimum sound quality will not be obtained if different DOLBY NR switch settings are used during recording and playback.

**Notes:**

- When a disc with 21 tunes or more is loaded, "C---" will appear in the display. In such a case, set the required tape length using the track number buttons on the remote control.
- In CD edit recording blanks of approx. 4 seconds will automatically be left between tunes on the recorded tape.

When automatic spacing between tunes is not required ...

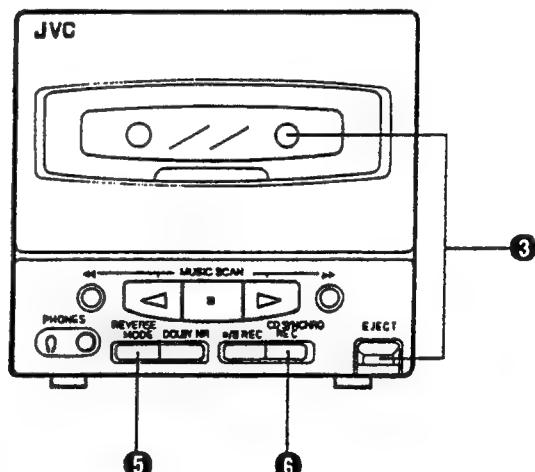
Perform the following.

1. Press the  $\gg$  button of the CD player twice. The CD Player enters the pause mode.
2. Press the CD SYNCHRO REC button to start recording.

**Note:**

- Depending on the disc used, blanks of a specified length may be left between tunes

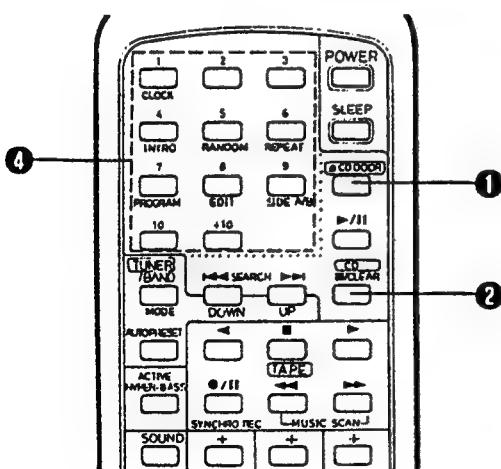
- After use  
Press the  $\blacksquare$ /CLEAR button to release the CD edit recording mode. (The CD edit recording mode is also released when the CD door is open.)



### Synchronized recording with the CD player

- In this system, the CD player starts playback when the cassette deck enters the recording mode.

### Operate in the order shown



- ① Load a disc and close the CD door. (The power is switched on.)
- ② Set to the CD mode.
- ③ Load a cassette with side A facing out. (Wind past the leader tape before starting recording.)
- ④ When programmed playback is required, program the required tunes using the remote control. (See page 27.)
  - Select tunes with a total playing time which does not exceed the tape length.
- ⑤ Select the required reverse mode ( $\Rightarrow$  or  $\Leftarrow$ ).
- ⑥ Press the CD SYNCHRO REC button; synchronized recording will start.
  - Recording starts in the forward direction and CD play starts automatically.

- When the CD player has played the disc or programmed tunes, the deck stops automatically.
- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- To stop recording in the middle, press the ■ (stop) button of the cassette deck.
- CD complete recording function (Synchro recording mode only)**  
If the tape is reversed while a CD is being played, recording will be done on the reverse side of the tape as follows:
  - When less than 10 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the previous tune.
  - When more than 10 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the current tune.
- To record an entire disc in the tune order of the CD**  
After the operations in steps ① - ④ above, press the ▶/II button of the CD player after the ●/II REC and ▶ buttons have been pressed.

**Note:**

- During CD edit recording and synchro recording, the PAUSE and SEARCH buttons do not function.

- Load a cassette with side A facing out.  
(Wind past the leader tape before starting recording.)
  - Press the TUNER/BAND button. Tune to the required station.
  - Select the required reverse mode (↔ or ↔).
  - Press the ●/II REC button (recording-pause mode).
    - The tape direction indicator (↔) blinks.
    - The function switch is locked and its position cannot be changed.
  - Press to start recording.
- To stop recording temporarily, press the ●/II REC button. To resume recording, press the ▶ or ← button corresponding to the tape direction indicator which is blinking.

**Erasing**

When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.

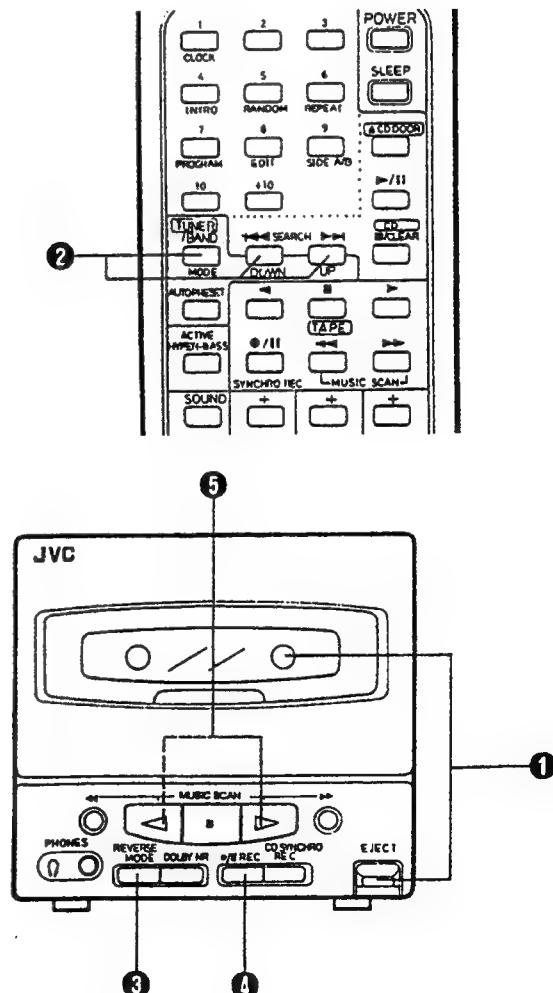
To erase a tape without making a new recording...

Press the ■ (stop) button to set to the TAPE mode, then perform recording.

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

**Recording from the radio**

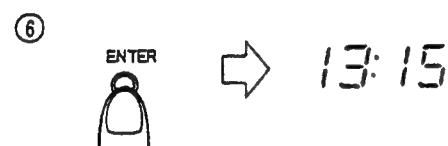
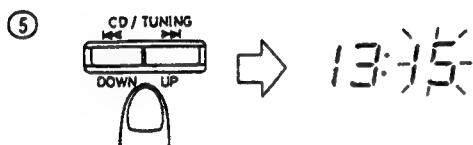
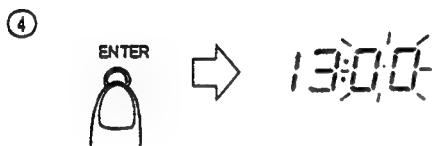
Operate in the order shown



## CLOCK/TIMER ADJUSTMENT

**Setting the current time  
(when the UX-A4 is used for the first time)**

(Example: to set the clock to 13:15.)



- ① Connect the AC power cord; "0:00" will blink in the display.
- ② Press the CLOCK button for 2 sec. or more; the hour's digits will blink.
- ③ Set to 13:00 by pressing the UP/DOWN buttons. (When the buttons are kept pressed, the time indication changes continuously.)
- ④ Press the ENTER button; the minute's digits will blink.
- ⑤ Set to 13:15 by pressing the UP/DOWN buttons.
- ⑥ Press the ENTER button; the time will light in the display.
- To set to the nearest second...  
Press the ENTER button when you hear the time signal from a TV or radio.

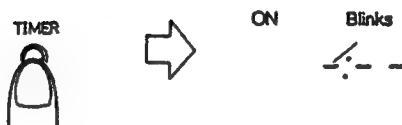
### Notes:

- Before performing timer recording or playback, it is necessary to set the current time.
- It is recommended to set the current time with the power switch set to STANDBY so that the current display mode is maintained.
- When the power cord is plugged in again after being disconnected or power is restored after a power failure, clock display will blink or light in the display. Set the current time again.

### Setting the timer

- The current time must be set before the timer can be used.

- ① Press the TIMER button.

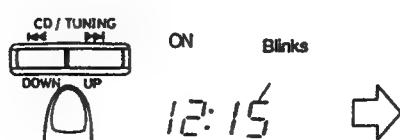
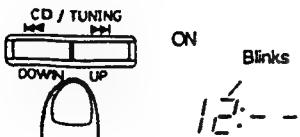


- ② Set the start time

(Example: when the timer start time is set to 12:15.)

- ① Adjust the hours.

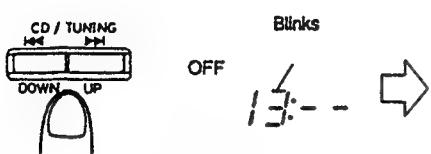
- ② Adjust the minutes.



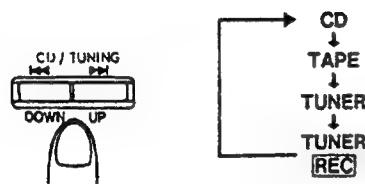
- Press to set the start time.

**① Set the stop time**

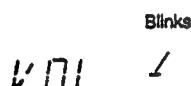
(Example: when the timer stop time is set to 13:15.)

**① Adjust the hours.****② Adjust the minutes.**

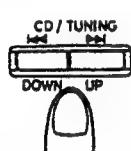
• Press to set the timer off time.

**④ Select the TIMER mode.**

• The selected timer mode is shown in the display.



When the UP button is pressed to select the timer mode, the mode changes from the, CD (timer playback of a CD), TAPE (timer playback of a tape), TUNER (timer reception of a broadcast) to TUNER/REC (timer recording of a broadcast), in this order.

**⑤ Set the volume.**

This shows when volume level 1 is selected.



• The selected volume is set.

The playback level is determined by the position of VOLUME control.

When the UP button is used to select the volume.



The volume decreases to zero at the timer start time, and the sound fades in.

- The unit enter the previously engaged mode and timer setting is complete.
- To check the timer setting
  1. Press the TIMER button.
  2. Press the ENTER button to check the timer mode.
  3. When the previous engaged mode is displayed, timer setting has been completed.

**Notes:**

- When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.
- When the timer is set, "-:-" in the display is replaced by the input digits.
- When the timer stop time is not set, the timer operates for 2 hours and then the unit is switched off. To continue listening after the timer stop time, display the timer stop time, change the hours digits to ":" using the UP button and press the ENTER button.

## TIMER OPERATIONS

### Timer recording of broadcast

- The current time must be set correctly before you set timer recording.
- Make sure that the erase protection tabs of the cassette have not been broken off.

#### Operations

- Set the POWER button to ON.
- Load a cassette.
  - Insert the cassette with the side to be recorded facing out.
  - Set the reverse mode button to "↔" or "↔↔" and set the DOLBY NR button as required.
- Set the timer start and stop times, set the timer recording mode, then set the required volume, in this order. (Refer to "Setting the timer" on page 46.)
  - Set the timer about a minute before the broadcast to be recorded is scheduled to start.
- Tune to the station to be recorded. (Refer to page 34.)
- Set the POWER button to STANDBY.

### Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

#### Operations

- Set the POWER switch to ON.
- Set the timer start and stop times, set the timer playback mode, then set the volume, in this order. (Refer to "Setting the timer" on page 46.)

- Timer recording will start at preset start time and the power will be switched off at preset stop time. When timer recording is completed, the timer mode is switched to the "TUNER" (timer reception of broadcast) mode.

- To cancel timer operation

Press the TIMER button so that the timer mode indicator (⌚) goes out.

If you do this, timer recording will not start at the timer start time.

#### Notes:

Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again.

- After setting the timer start and stop times, check that the unit is tuned to the required frequency.
- When the power cord is disconnected or there is a power failure, timer settings will be erased from memory. If this happens, set the current time and perform the timer setting again.

| Source sound  | Timer mode | Operations            |
|---------------|------------|-----------------------|
| CD play       | CD         | Load a disc.          |
| Tape playback | TAPE       | Load a cassette tape. |
| Broadcast     | TUNER      | —                     |

- Timer playback of a CD is possible in programmed order. (See page 27.)
- The volume can be set to 50 different levels.

- Tune to the required frequency when the timer playback of a broadcast is to be performed.

- Switch the power off.

- Timer playback will start at the timer start time and the power will be switched off at the timer stop time. The unit remains in the same timer mode even after the power is switched off and the same timer function will be repeated at the same time on the following day.

## 6. Location of Main Parts

### ■ Tape Deck/Amplifier Section

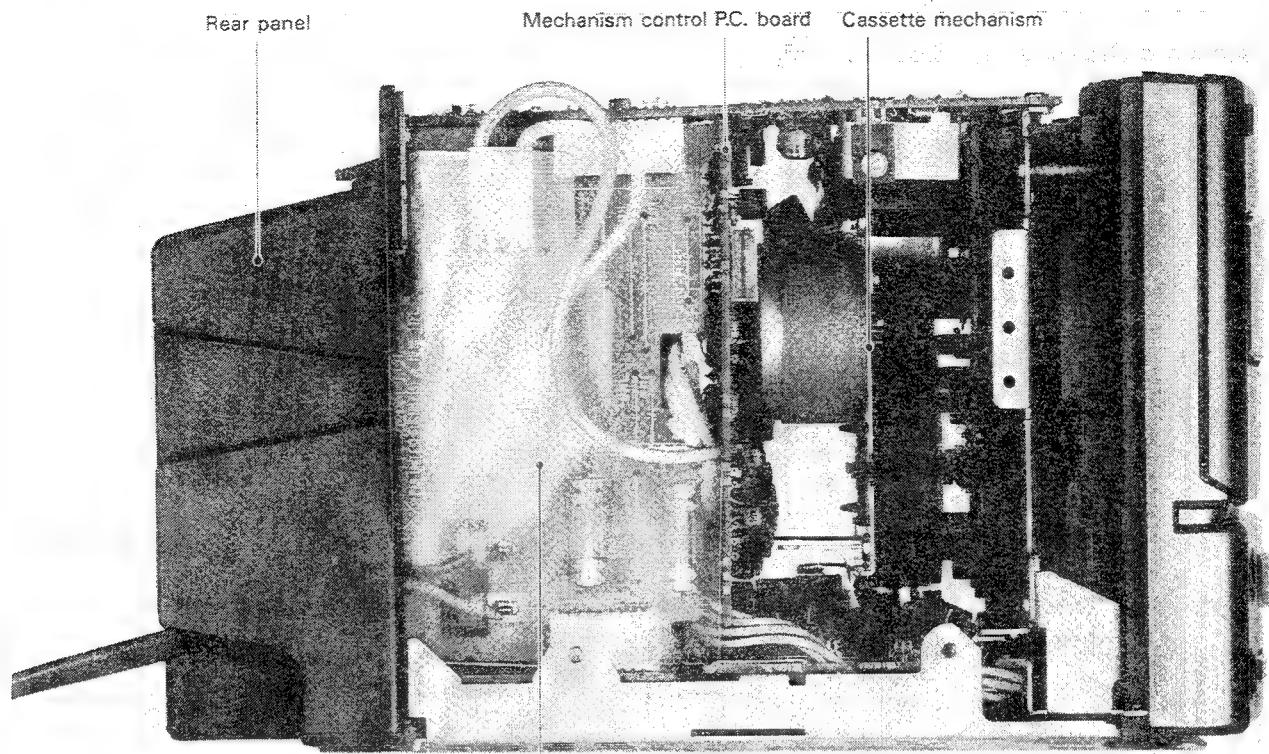


Fig. 6-1

### ■ CD/Tuner Section

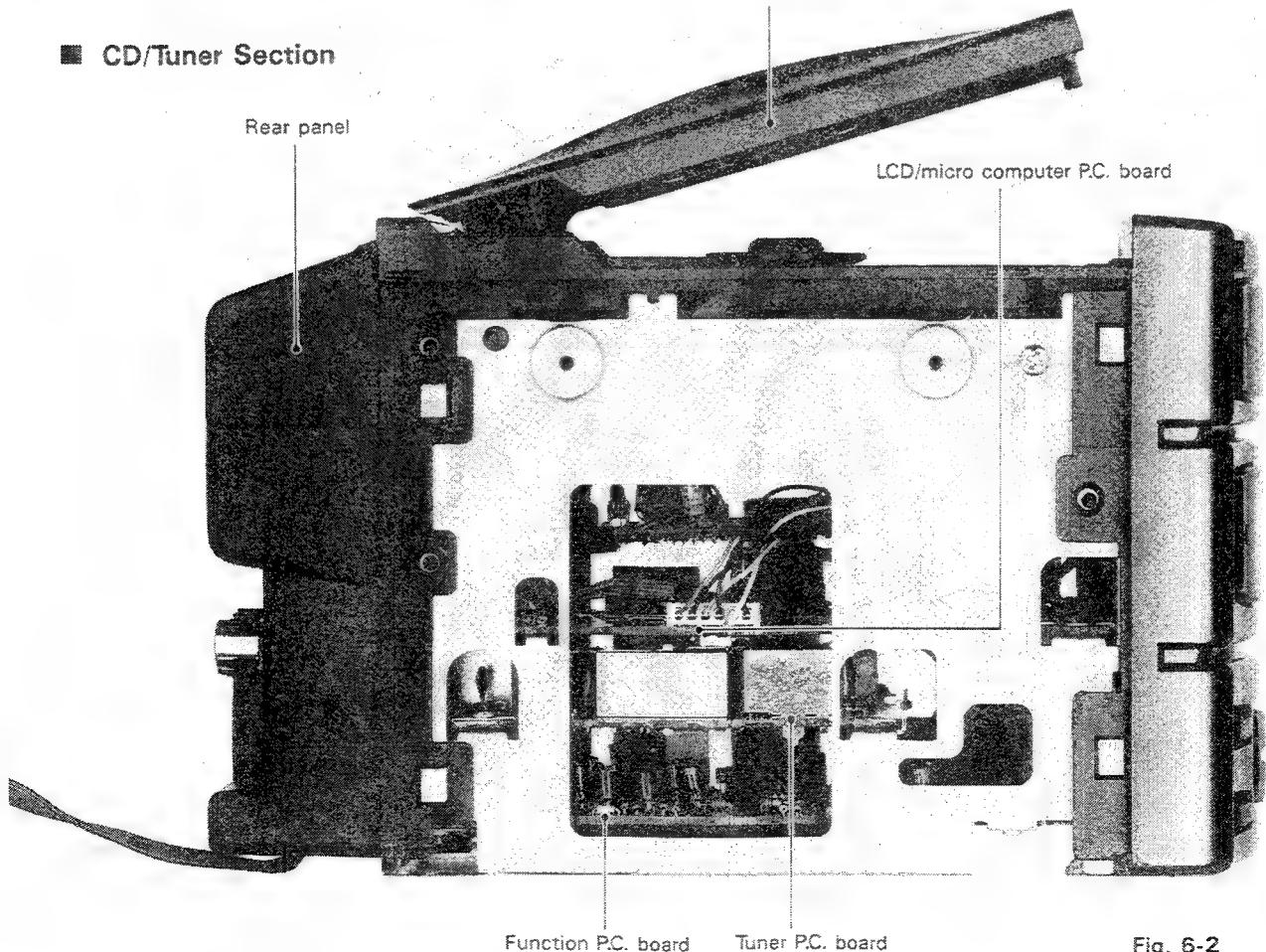


Fig. 6-2

## 7. Removal of Main Parts and Analytic Drawing

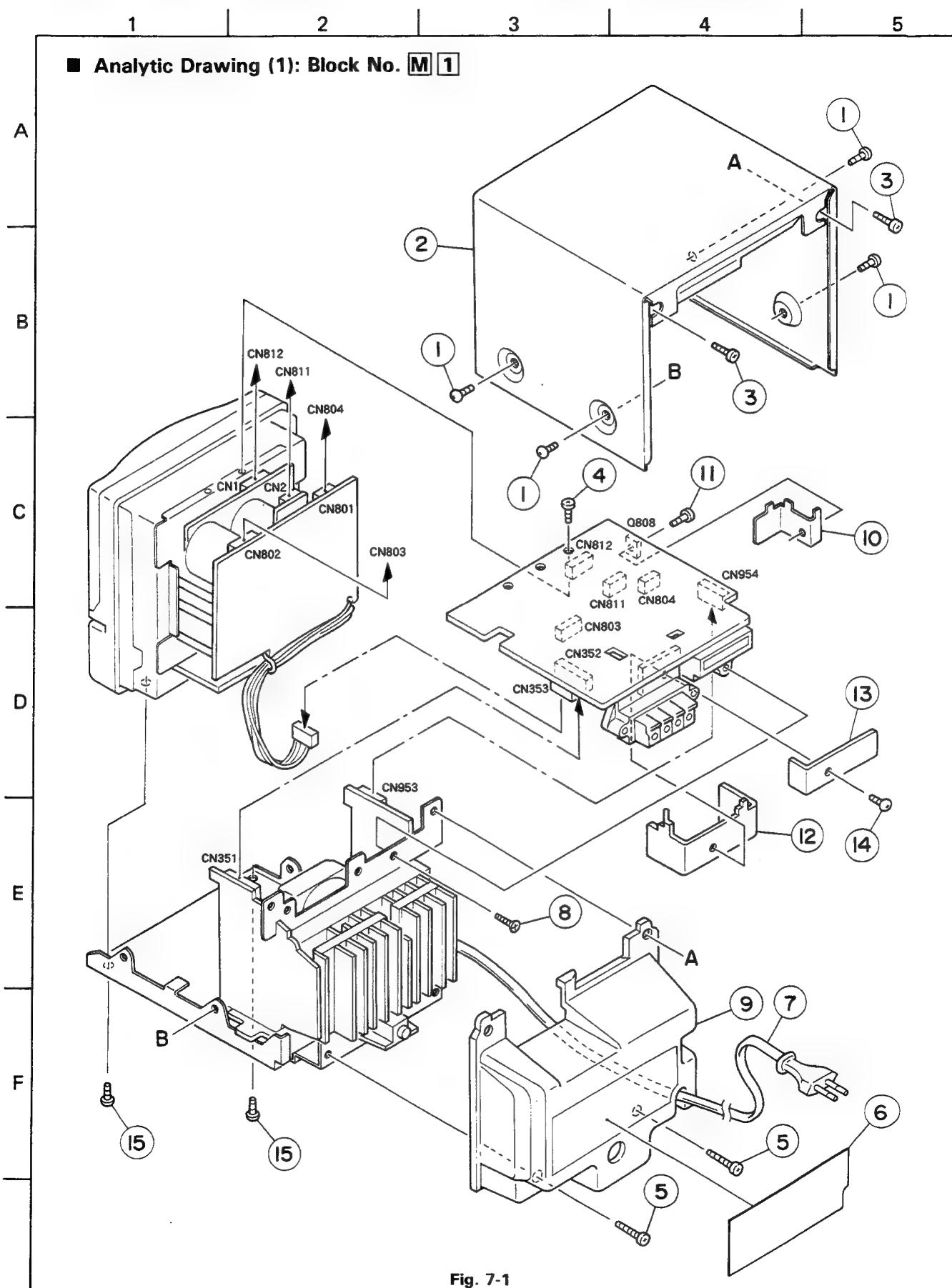


Fig. 7-1

### ■ Separation of Front Panel Ass'y and Power Supply Unit Ass'y

1. Remove the four screws ① retaining the right and left sides of the top cover from the body.
2. Remove the two screws ③ retaining the rear side of the top cover.
3. Remove the two screws ⑤ retaining the rear panel from the body.
4. Remove the one screw ⑧ retaining the mechanism control speaker terminal P.C. board from the transformer bracket.
5. From the front panel ass'y, remove the one screw ④ retaining the mechanism control speaker terminal P.C. board.
6. After raising (floating) the mechanism control P.C. board upward, dismount the connectors CN954, CN353, CN352, CN812, CN803, CN804 and CN811 on the mechanism control P.C. board respectively from the connector CN953 on the fuse P.C. board, connector CN351 on the power amplifier P.C. board and connector CN1 on the leaf switch P.C. board, connectors CN801 and CN802 on the pre-amplifier P.C. board, and connector CN2 on the actuator reel motor P.C. board.
7. Remove the two screws ⑯ retaining the front panel ass'y from the bottom side of the body.
8. Separate the front panel ass'y and power supply unit ass'y.

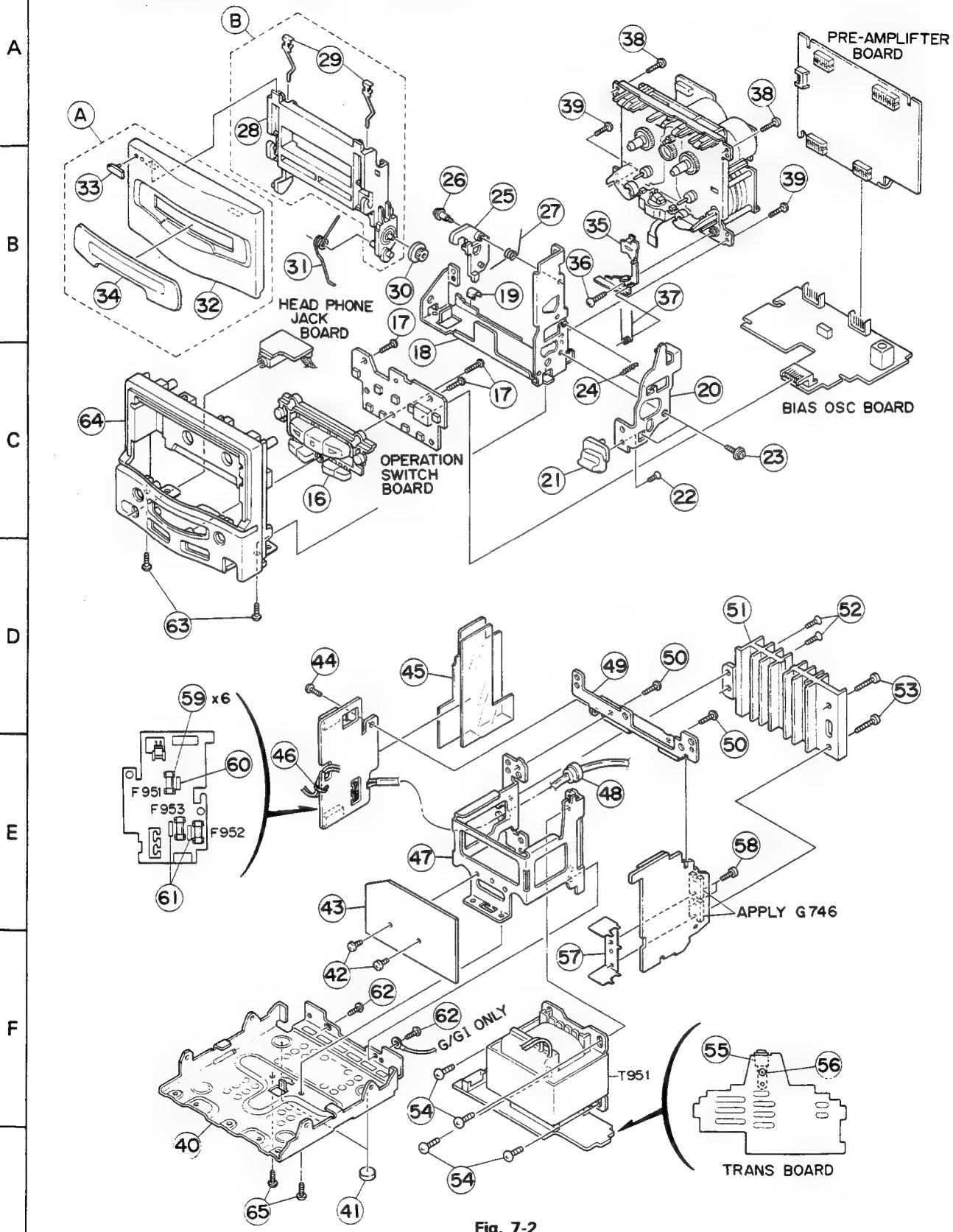
### ■ Analytic Drawing (1) Parts List

BLOCK NO. M1MM 1111

| A | REF. | PARTS NO.      | PARTS NAME     | REMARKS              | QTY | SUFFIX    | CLR |
|---|------|----------------|----------------|----------------------|-----|-----------|-----|
|   | 1    | SDST3006M      | SCREW          |                      | 4   |           |     |
|   | 2    | VJC2412-003    | TOP COVER      |                      | 1   |           |     |
|   | 3    | SDST3008M      | SCREW          |                      | 2   |           |     |
|   | 4    | SBST3006Z      | SCREW          |                      | 2   |           |     |
|   | 5    | SDST3010N      | SCREW          | FRONT+BOTTOM<br>REAR | 2   |           |     |
| ▲ | 6    | VYN9214-S002   | NAME PLATE     |                      | 1   | B         |     |
| ▲ |      | VYN9214-S015   | NAME PLATE     |                      | 1   | EN        |     |
| ▲ |      | VYN9214-S108   | NAME PLATE     |                      | 1   | GI        |     |
| ▲ |      | VYN9214-008    | NAME PLATE     |                      | 1   | G         |     |
| ▲ |      | VYN9214-005    | NAME PLATE     |                      | 1   | E         |     |
|   | 7    | QMP5530-0085BS | POWER CORD     |                      | 1   | B         |     |
|   |      | QMP3900-200    | POWER CORD     |                      | 1   | E,G,GI,EN |     |
|   | 8    | SSSF3008Z      | SCREW          | JACK HOLDER+JAC      | 1   |           |     |
|   | 9    | VJG1125-104    | REAR PANEL (D) |                      | 1   |           |     |
|   | 10   | VMH4049-001    | HEAT SINK      |                      | 1   |           |     |
|   | 11   | SDST2608Z      | SCREW          |                      | 1   |           |     |
|   | 12   | VMH4047-002    | HEAT SINK      |                      | 1   |           |     |
|   | 13   | VMH4048-001    | HEAT SINK      |                      | 1   |           |     |
|   | 14   | SBSF3012Z      | SCREW          |                      | 1   |           |     |
|   | 15   | SDST2606Z      | SCREW          | PCB+MECHA.           | 2   |           |     |

1 2 3 4 5

## ■ Analytic Drawing (2): Block No. M 2



## ■ Analytic Drawing (2) Parts List

| BLOCK NO. M2MM |             |               |                 |                 |     |        |     |
|----------------|-------------|---------------|-----------------|-----------------|-----|--------|-----|
| A              | REF.        | PARTS NO.     | PARTS NAME      | REMARKS         | QTY | SUFFIX | CLR |
|                | A           | ZCUXDA4K-CLB  | CASSETTE LID    | REF.32-34       | 1   |        |     |
|                | B           | ZCUXDA4K-CH   | CASSETTE HOLDER | REF.28,29       | 1   |        |     |
| 16             | VXP3602-001 | BUTTON        |                 |                 | 1   |        |     |
| 17             | SBSF2608Z   | SCREW         | FRONT+SW BOARD  |                 | 3   |        |     |
| 18             | VYH3787-001 | HOLDER        |                 |                 | 1   |        |     |
|                | 19          | VYSA1R4-059   | SPACER          | HOLDER          | 1   |        |     |
|                | 20          | VYH7817-001   | EJECT LEVER     |                 | 1   |        |     |
|                | 21          | VXQ4118-001   | EJECT KNOB      |                 | 1   |        |     |
|                | 22          | SDSF2608Z     | SCREW           | EJECT KNOB      | 1   |        |     |
|                | 23          | VKZ4323-002   | SCREW           | EJECT LEVER     | 2   |        |     |
|                | 24          | VKW3002-274   | TENSION SPRING  | EJECT LEVER     | 1   |        |     |
|                | 25          | VYH7347-001   | EJECT ARM       |                 | 1   |        |     |
|                | 26          | VKZ4341-001   | SPECIAL SCREW   | EJECT ARM       | 1   |        |     |
|                | 27          | VKW4938-001   | TORTION SPRING  | EJECT ARM       | 1   |        |     |
|                | 28          | VJT2263-003   | CASS DOOR       |                 | 1   |        |     |
|                | 29          | VKY4180-001   | CASSETTE SPRING |                 | 2   |        |     |
|                | 30          | VYH5601-001   | GEAR            |                 | 1   |        |     |
|                | 31          | VKW5110-001   | DOOR SPRING     |                 | 1   |        |     |
|                | 32          | VJT2330-001   | DOOR COVER      |                 | 1   |        |     |
|                | 33          | E406971-221   | JVC MARK        |                 | 1   |        |     |
|                | 34          | VJT4209-001   | DOOR LENS       |                 | 1   |        |     |
|                | 35          | VKL7293-001   | EJECT SAFETY(R) |                 | 1   |        |     |
|                | 36          | SBSF3010Z     | SCREW           | EJECT SAFETY    | 1   |        |     |
|                | 37          | VKW5069-001   | TORSION SPRING  | EJECT SAFETY    | 1   |        |     |
|                | 38          | SBSF3008Z     | SCREW           | F.PANEL+MECHA.  | 2   |        |     |
|                | 39          | SBST3006Z     | SCREW           | HOLDER+MECHA.   | 2   |        |     |
|                | 40          | VJC3237-003   | BOTTOM COVER    |                 | 1   |        |     |
|                | 41          | VJF4003-003   | FOOT            |                 | 2   |        |     |
|                | 42          | SDST3004Z     | SCREW           |                 | 2   |        |     |
|                | 43          | VMA4603-001   | SHIELD PLATE    |                 | 1   |        |     |
|                | 44          | SBST3008Z     | SCREW           | J.HOLDER+FUSE P | 1   |        |     |
|                | 45          | VMA4604-002   | BARRIER         | FOR FUSE PCB    | 1   |        |     |
|                | 46          | QHX5080-001   | WIRE CLAMP      |                 | 3   |        |     |
|                | 47          | VYH3658-002   | TRANS BRACKET   |                 | 1   |        |     |
|                | 48          | QHS3876-162BS | CORD STOPPER    | POWER CORD      | 1   | B      |     |
|                |             | QHS3876-162   | CORD STOPPER    |                 | 1   |        |     |
|                | 49          | VYH7698-002   | JACK HOLDER     |                 | 1   |        |     |
|                | 50          | SBST3008Z     | SCREW           | J.HODER+TRANS B | 2   |        |     |
|                | 51          | VMH4046-002   | HEAT SINK       |                 | 1   |        |     |
|                | 52          | SSST3008Z     | SCREW           | HEAT SINK+T.BKT | 2   |        |     |
|                | 53          | SDST3012Z     | SCREW           |                 | 2   |        |     |
|                | 54          | SBST4006Z     | SCREW           | POWER TRANS     | 4   |        |     |
|                | 55          | VYH7696-001   | JACK STOPPER    |                 | 1   |        |     |
|                | 56          | SBSF3008Z     | SCREW           | JACK STOPPER    | 1   |        |     |
|                | 57          | VYH7708-002   | IC HOLDER       |                 | 1   |        |     |
|                | 58          | SDST2608Z     | SCREW           | IC+IC BKT       | 2   |        |     |
|                | 59          | VMZ0087-001Z  | FUSE CLIP       |                 | 6   |        |     |
|                | 60          | VND4003-034   | FUSE LABEL      | FOR F951        | 1   |        |     |
|                | 61          | VND4003-050   | FUSE LABEL      | FOR F952        | 1   |        |     |
|                |             | VND4003-050   | FUSE LABEL      | FOR F953        | 1   |        |     |
|                | 62          | SBST3006Z     | SCREW           | TRANS BKT       | 4   |        |     |
|                | 63          | SBST3006Z     | SCREW           | HOLDER+F.PANEL  | 2   |        |     |
|                | 64          | VJG1238-001   | FRONT PANEL(D)  |                 | 1   |        |     |
|                | F 951       | QMF51E2-R40J1 | FUSE            | F951            | 1   |        |     |

| BLOCK NO. M2MM |       |               |             |         |     |           |     |
|----------------|-------|---------------|-------------|---------|-----|-----------|-----|
| A              | REF.  | PARTS NO.     | PARTS NAME  | REMARKS | QTY | SUFFIX    | CLR |
| A              | F 952 | QMF51E2-6R3J1 | FUSE        | F952    | 1   |           |     |
| A              | F 953 | QMF51E2-6R3J1 | FUSE        | F954    | 1   |           |     |
| A              | T 951 | VTP66T2-12DBS | POWER TRANS |         | 1   | B         |     |
| A              |       | VTP66J2-12D   | POWER TRANS |         | 1   | E,G,GI,EN |     |

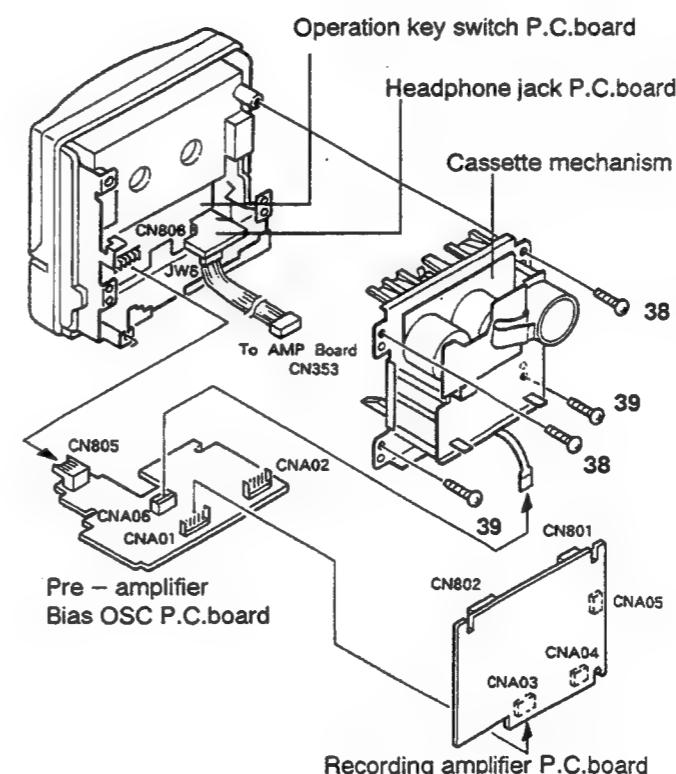


Fig. 7-3

## ■ Disassembly of Front Panel Ass'y

## • Cassette Mechanism (Fig. 7-2, 3)

1. After raising (floating) the recording amplifier P.C. board upward, dismount the connectors CNA03 and CNA04 on the P.C. board respectively from the connectors CNA01 and CNA02 on the pre-amplifier bias OSC P.C. board.
2. Remove the four screws (38) × 2 and (39) × 2 retaining the cassette mechanism from the front panel ass'y.
3. Pull out the flexible head wire from the connector CNA06 on the pre-amplifier bias OSC P.C. board.
4. After drawing the pre-amplifier bias OSC P.C. board toward the front side, dismount the connector CN805 on the P.C. board from the connector CN806 on the operation switch P.C. board.

## • Headphone Jack P.C. Board (Fig. 7-2, 3)

The headphone jack P.C. board can be dismounted by drawing it out toward the front side from inside the front panel ass'y.

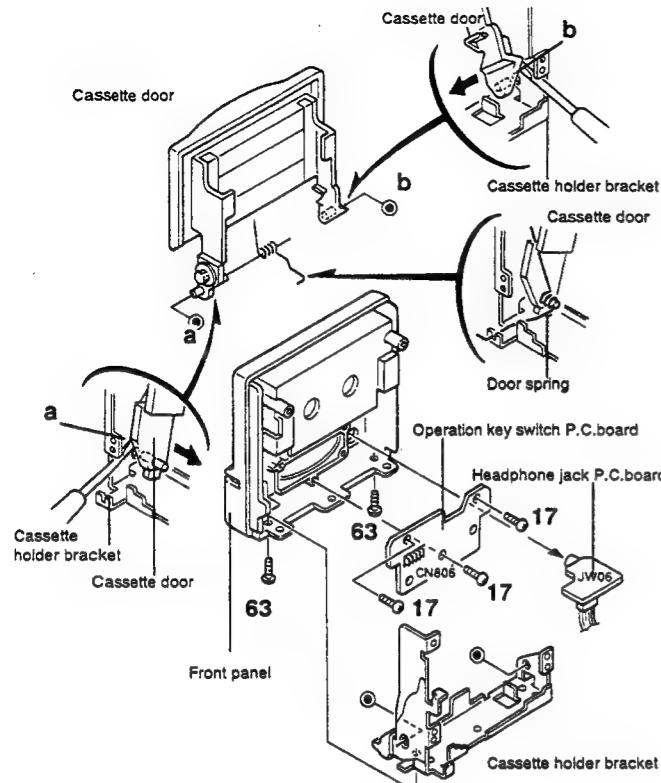


Fig. 7-4

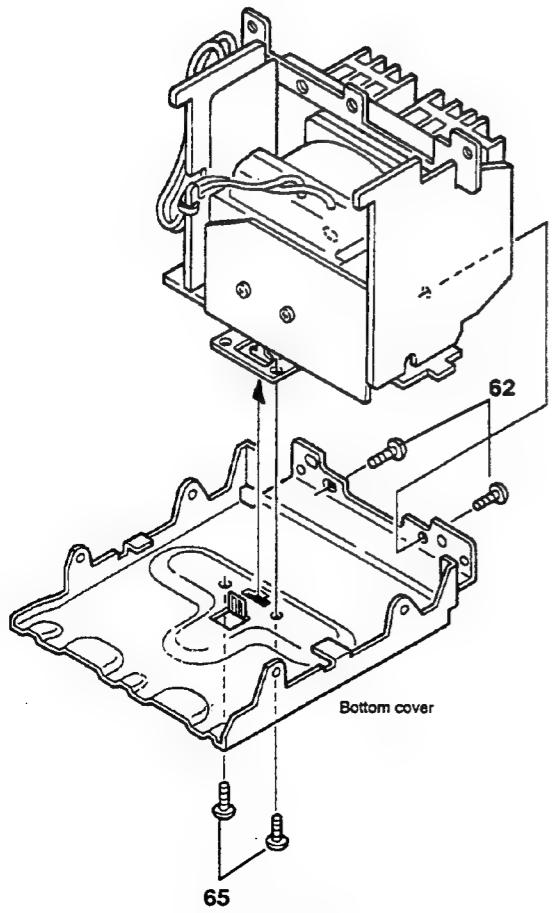


Fig. 7-5

#### ● Operation Key Switch P.C. Board and Front Panel (Fig. 7-2, 4)

1. Remove the two screws 63 retaining the cassette holder bracket from the lower side of the front panel.
2. Insert minus screw drivers into the two right and left engagement points (a, b) of the cassette door and cassette holder bracket from inside the front panel, and disengage the above door and bracket.
3. Remove the door spring and dismount the cassette door from the front panel.
4. Draw out the cassette holder bracket from the front cover.
5. Draw out the headphone jack P.C. board from the front panel.
6. Remove the three screws 17 retaining the operation key switch P.C. board, and draw out the P.C. board.

#### ■ Power Amplifier Power Supply Ass'y

##### ● Power Supply Transformer (Fig. 7-2, 5~7)

1. Remove the four screws (65 × 2 and 62 × 2) retaining the bottom cover and power supply unit.
2. Remove the four screws (52 × 2 and 53 × 2) retaining the heat sink from the transformer bracket and dismount the power amplifier P.C. board.
3. Remove the one screw 44 retaining the fuse P.C. board from the transformer bracket.
4. Remove the bushing retaining the power supply cord from the transformer bracket.
5. From the connector CN955 on the fuse P.C. board, remove the #2PIN connector outgoing from the power supply transformer.
6. Dismount the connector CN952 on the fuse P.C. board and connector CN951 on the transformer P.C. board.
7. Remove the soldering connecting the power supply transformer from the soldered surface of the transformer P.C. board and dismount the P.C. board.
8. Remove the four screws 54 retaining the power supply transformer from the transformer bracket.

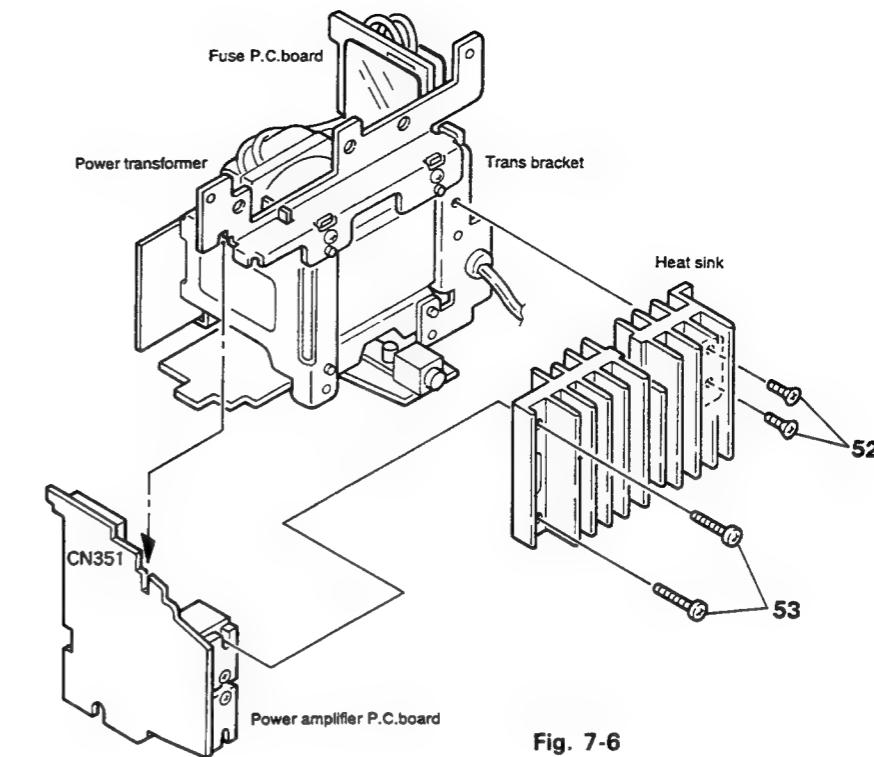


Fig. 7-6

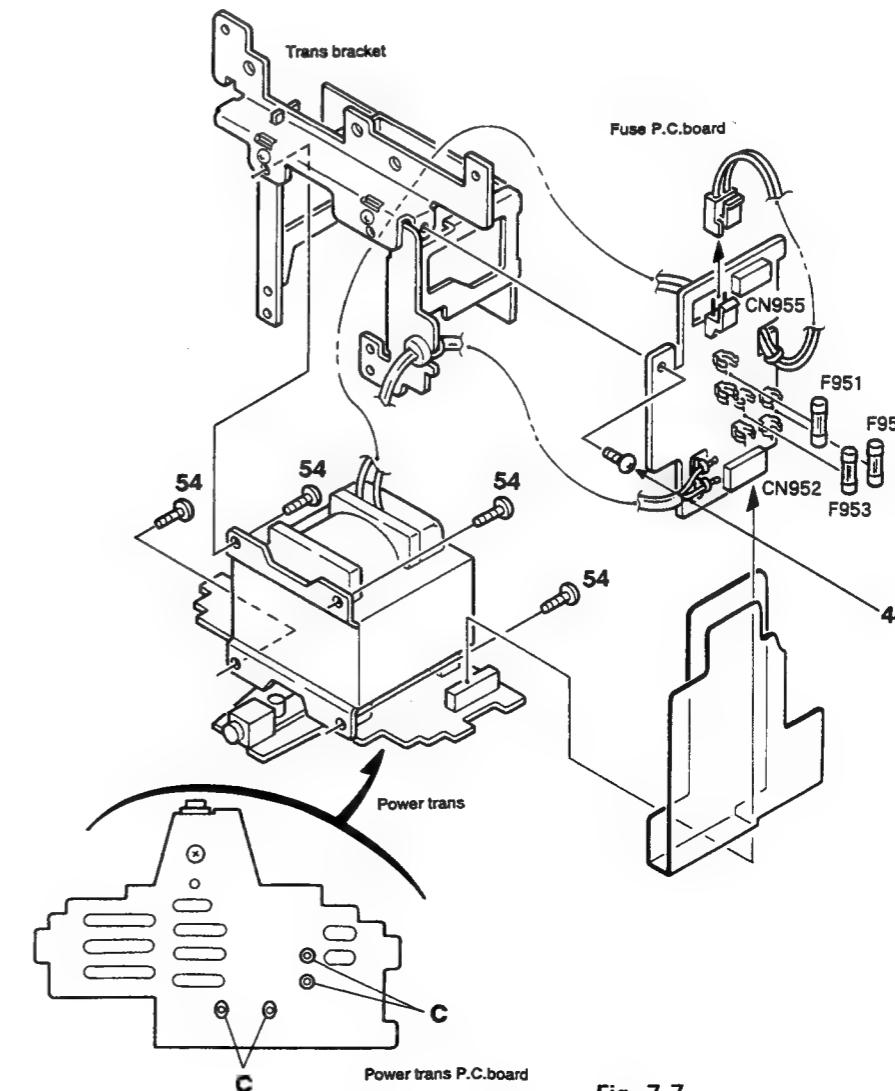


Fig. 7-7

1 | 2 | 3 | 4 | 5

■ Analytic Drawing (3): Block No. M 3

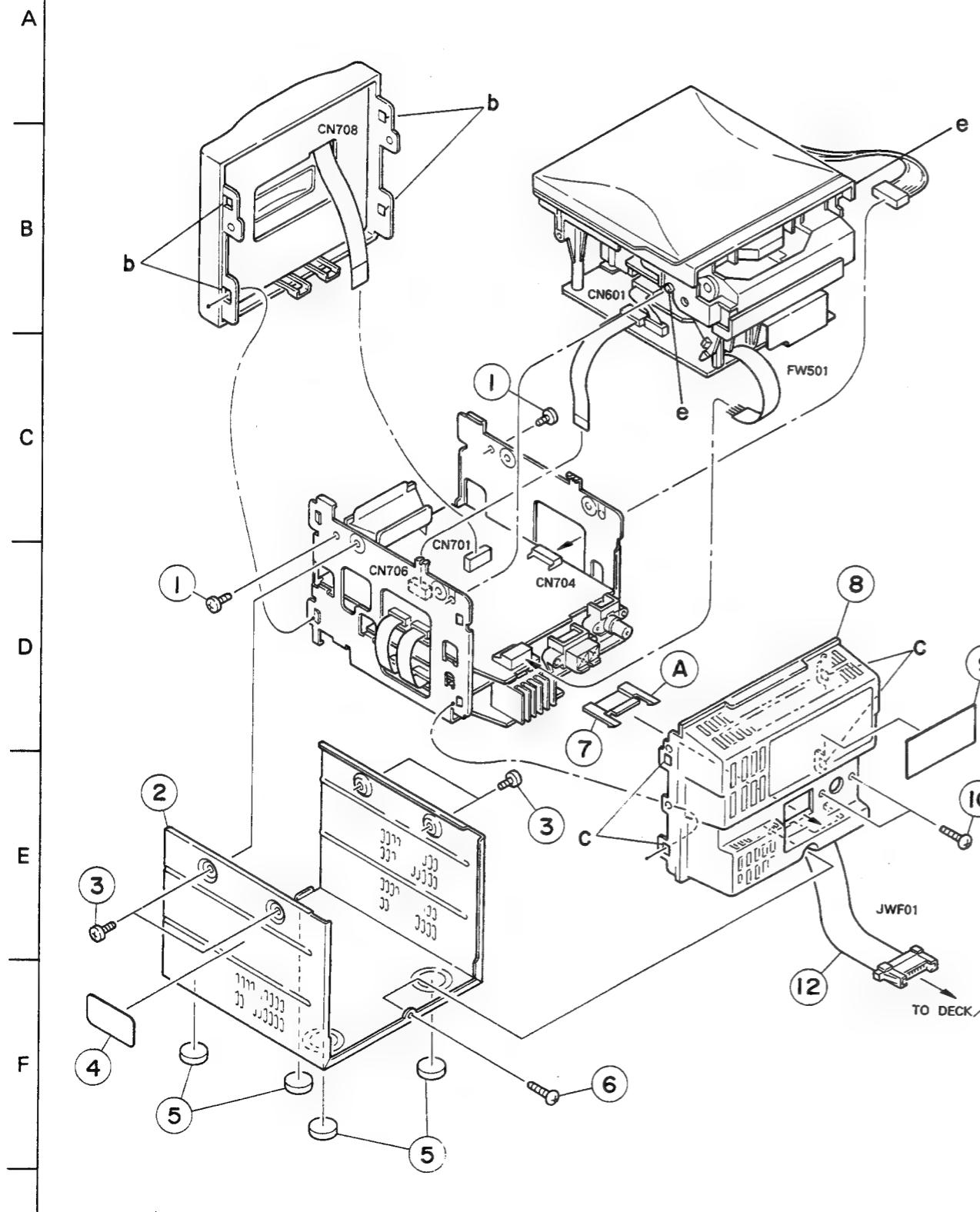


Fig. 7-8

■ Disassembly of CD Player Ass'y and Front Panel Ass'y

• Metal Cover (Fig. 7-8)

1. Remove the four screws ③ retaining the metal cover from the body.
2. Remove the one screw ⑥ retaining the metal cover from the back surface of the body.
3. Dismount the metal cover while expanding it outward.

• Front Panel Ass'y (Fig. 7-8)

From the connector CN701 on the LCD microcomputer P.C. board, remove the card wire outgoing from the connector CN708 on the operation key switch P.C. board attached to the front panel ass'y, and separate the card wire from the front panel ass'y.

• CD Player Ass'y (Fig. 7-8 ~ 11)

1. After turning the body upside down, insert a minus screw driver into the hole ④ engaging the system wire inserting wire holder and the rear cover, and disengage the holder and cover. Then, dismount the wire holder while pulling it out.
2. Remove the two screws ⑩ retaining the rear panel from the body.
3. After inserting a minus screw driver between the four engagement points ⑤ fixing the rear cover, release the engagements and separate the rear cover from the body.
4. After inserting a minus screw driver between the front panel and chassis, release the four engagement points ⑥ fixing the front panel ass'y, and separate the front panel ass'y from the body.
5. Remove the two screws ① retaining both sides of the CD player ass'y from the chassis.
6. After expanding the right and left sides of the chassis outward, release the right and left engagements ⑦ of the CD player ass'y and chassis, and separate the CD player ass'y from the body.

7. From the connector CN704 on the LCD microcomputer P.C. board, dismount the door switch P.C. board attached to the CD player ass'y and the #6PIN connector outgoing from the door motor P.C. board.

8. From the connector CN706 on the LCD microcomputer P.C. board, dismount the card wire outgoing from the connector CN601 on the CD amplifier P.C. board attached to the CD player ass'y.

9. From the connector CN705 on the LCD microcomputer P.C. board, dismount the #PIN parallel wire outgoing from FW501 on the CD amplifier P.C. board.

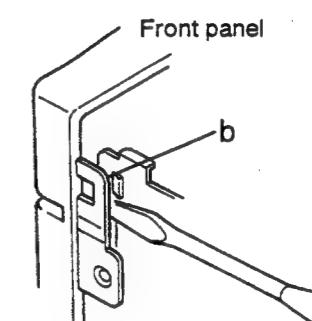


Fig. 7-9

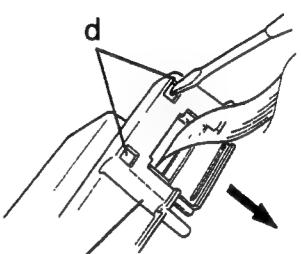


Fig. 7-10

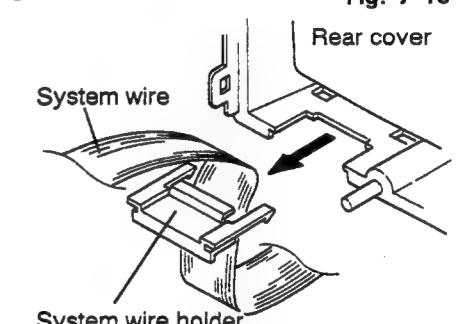


Fig. 7-11

■ Analytic Drawing (3) Parts List M 3

| BLOCK NO. M3MM |      |             |                 |                 |     |        |
|----------------|------|-------------|-----------------|-----------------|-----|--------|
| A              | REF. | PARTS NO.   | PARTS NAME      | REMARKS         | QTY | SUFFIX |
|                | 1    | SDFS3008Z   | SCREW           | CD+CHASSIS UNIT | 2   |        |
|                | 2    | VJC2411-004 | METAL COVER     |                 | 1   |        |
|                | 3    | SDST3006M   | SCREW           | METAL COVER     | 4   |        |
|                | 4    | VND4221-001 | CLASS 1 LABEL   |                 | 1   |        |
|                | 5    | VJF4003-003 | FOOT            |                 | 4   |        |
|                | 6    | SBSF3008N   | T.SCREW         |                 | 1   |        |
|                | 7    | VYH7707-001 | WIRE HOLDER     | SYSTEM WIRE 94H | 1   |        |
|                | 8    | VJG1137-001 | REAR PANEL(T)   |                 | 1   |        |
|                | 9    | VYN9214-001 | NAME PLATE      |                 | 1   |        |
|                | 10   | SBSF3008N   | T.SCREW         |                 | 1   |        |
|                | 11   | EMV7130-017 | WIRE HOLDER     | FOR SYSTEM WIRE | 1   |        |
|                | 12   | VMP0092-001 | SYSTEM WIRE ASY | JWF01           | 1   |        |

1 2 3 4 5

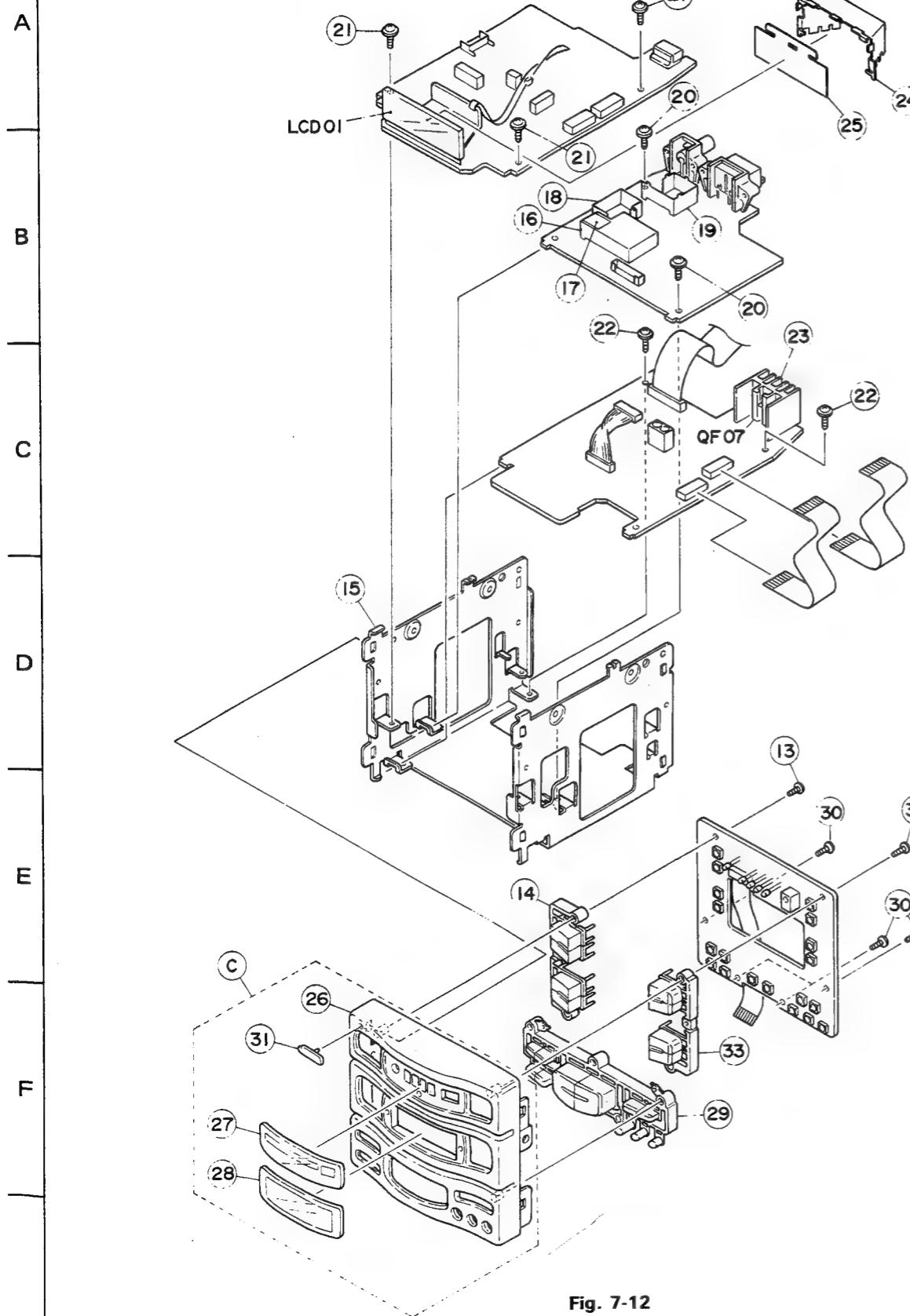
**■ Analytic Drawing (4): Block No. M4**

Fig. 7-12

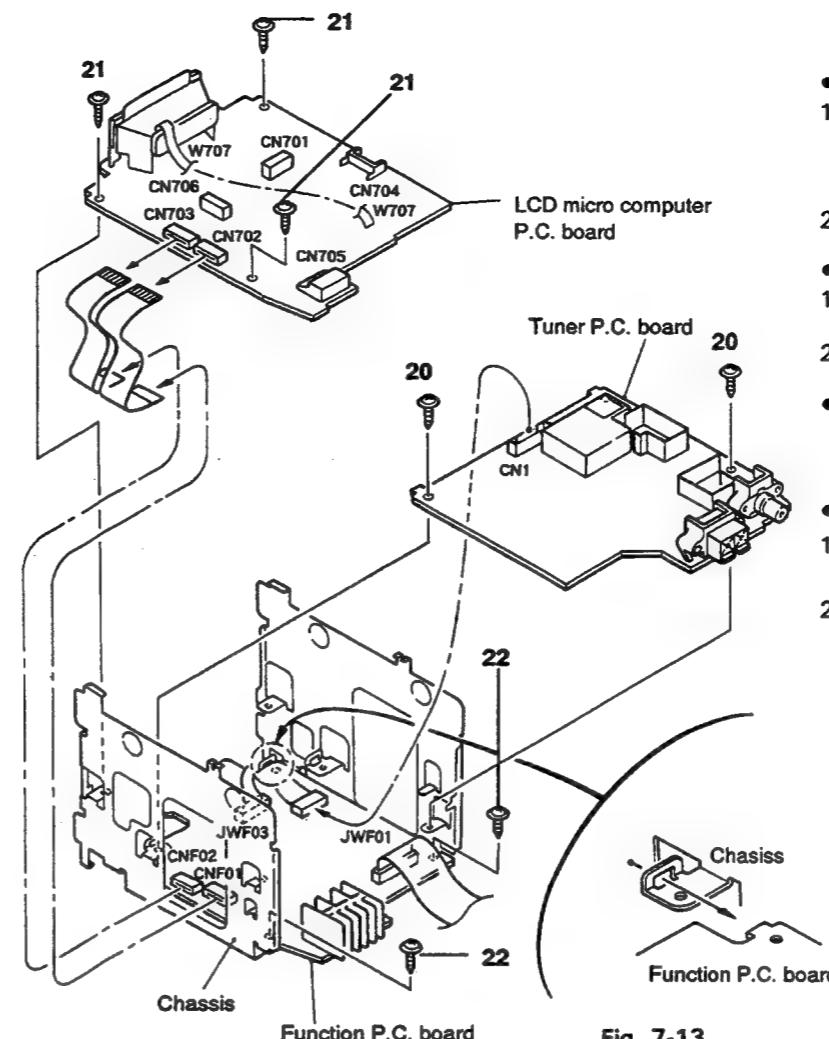
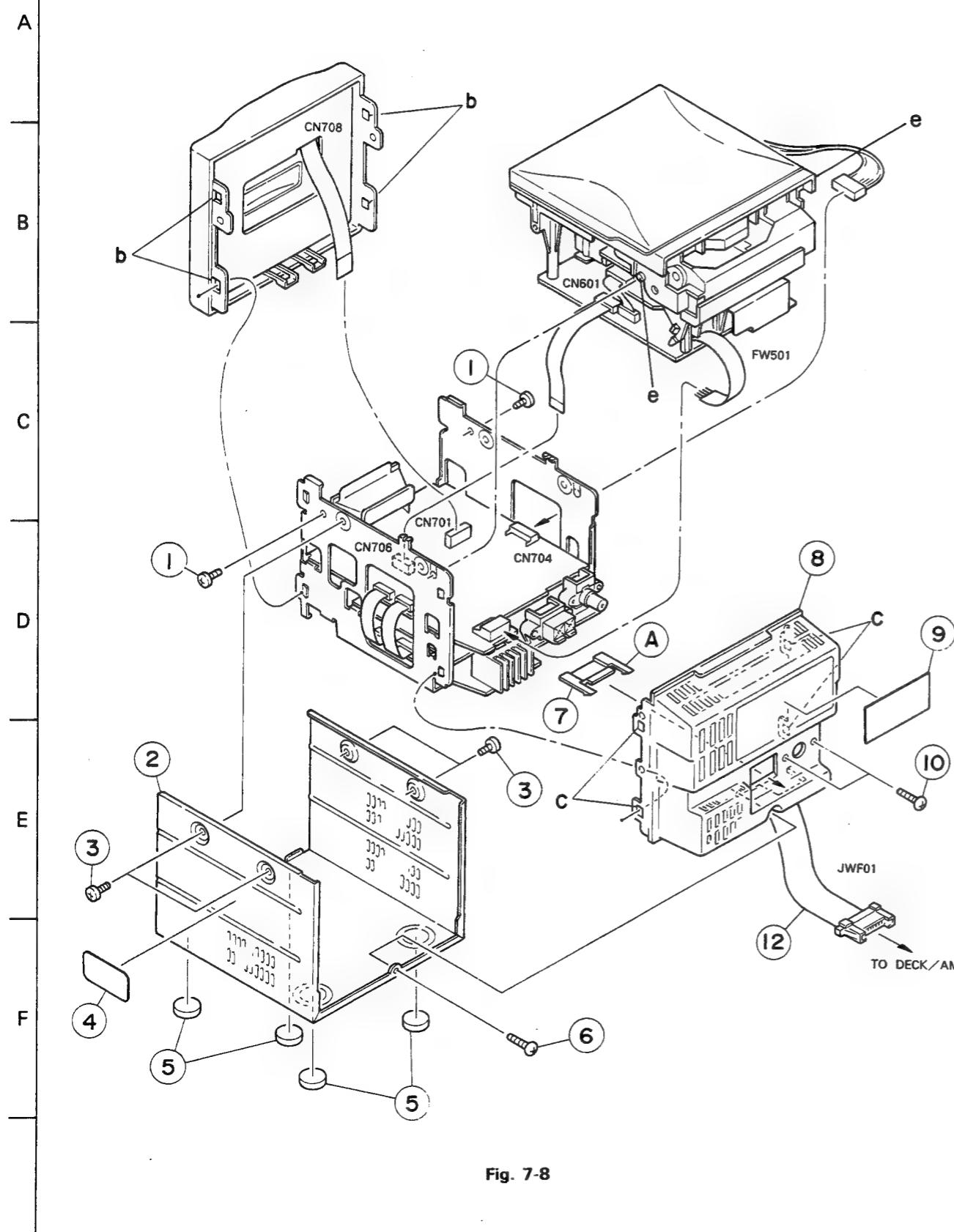


Fig. 7-13

**■ Analytic Drawing (4) Parts List**

| BLOCK NO. M4MM |             |                |                 |     |        |     |
|----------------|-------------|----------------|-----------------|-----|--------|-----|
| REF.           | PARTS NO.   | PARTS NAME     | REMARKS         | QTY | SUFFIX | CLR |
| C              | ZCUXRA4K-FB | FRONT CABINET  | REF.26-28,31    | 1   |        |     |
| 13             | SBSF2610Z   | SCREW          |                 | 1   |        |     |
| 14             | VXP3618-002 | BUTTON(A)      |                 | 1   |        |     |
| 15             | VYH2269-002 | CHASSIS        |                 | 1   |        |     |
| 16             | VMA4561-001 | SHIELD CASE    |                 | 1   |        |     |
| 17             | PU59915-105 | SPACER         |                 | 1   |        |     |
| 18             | VMA4522-001 | SHIELD(B)      |                 | 1   |        |     |
| 19             | VMA4521-001 | SHIELD(A)      |                 | 1   |        |     |
| 20             | GBST3006Z   | SCREW          | TU PWB+CHASSIS  | 2   |        |     |
| 21             | GBST3006Z   | SCREW          | CPU PWB+CHASSIS | 3   |        |     |
| 22             | GBST3006Z   | SCREW          | FUNC PWB+CHASSI | 2   |        |     |
| 23             | VYH7734-001 | HEAT SINK      | QF07            | 1   |        |     |
| 24             | VYH3784-001 | LAMP CASE      | SPTE            | 1   |        |     |
| 25             | VYTT635-001 | LCD FILTER     | カクサン イロタシヨウ     | 1   |        |     |
| 26             | VJG1237-001 | FRONT PANEL(T) |                 | 1   |        |     |
| 27             | VJK4403-002 | REMOTE LENS    | AS SILKX4       | 1   |        |     |
| 28             | VJK4404-002 | LCD LENS       | AS SILKX2       | 1   |        |     |
| 29             | VXP3601-001 | VOLUME BUTTON  | ABS             | 1   |        |     |
| 30             | SBSF2610Z   | SCREW          | VOLUME BUTTON   | 4   |        |     |
| 31             | E406971-221 | JVC MARK       | 22.5W           | 1   |        |     |
| 32             | SBSF2610Z   | SCREW          | FOR BOTTOM(B)   | 1   |        |     |
| 33             | VXP3619-002 | BUTTON(B)      | ABS             | 1   |        |     |
| LCD01          | VGL1146-001 | LCD            |                 | 1   |        |     |

1 | 2 | 3 | 4 | 5

**■ Analytic Drawing (3): Block No. M 3****■ Disassembly of CD Player Ass'y and Front Panel Ass'y****• Metal Cover (Fig. 7-8)**

1. Remove the four screws ③ retaining the metal cover from the body.
2. Remove the one screw ⑥ retaining the metal cover from the back surface of the body.
3. Dismount the metal cover while expanding it outward.

**• Front Panel Ass'y (Fig. 7-8)**

From the connector CN701 on the LCD microcomputer P.C. board, remove the card wire outgoing from the connector CN708 on the operation key switch P.C. board attached to the front panel ass'y, and separate the card wire from the front panel ass'y.

**• CD Player Ass'y (Fig. 7-8 ~ 11)**

1. After turning the body upside down, insert a minus screw driver into the hole ④ engaging the system wire inserting wire holder and the rear cover, and disengage the holder and cover. Then, dismount the wire holder while pulling it out.
2. Remove the two screws ⑩ retaining the rear panel from the body.
3. After inserting a minus screw driver between the four engagement points ⑤ fixing the rear cover, release the engagements and separate the rear cover from the body.
4. After inserting a minus screw driver between the front panel and chassis, release the four engagement points ⑥ fixing the front panel ass'y, and separate the front panel ass'y from the body.
5. Remove the two screws ① retaining both sides of the CD player ass'y from the chassis.
6. After expanding the right and left sides of the chassis outward, release the right and left engagements ⑦ of the CD player ass'y and chassis, and separate the CD player ass'y from the body.

7. From the connector CN704 on the LCD microcomputer P.C. board, dismount the door switch P.C. board attached to the CD player ass'y and the #6PIN connector outgoing from the door motor P.C. board.

8. From the connector CN706 on the LCD microcomputer P.C. board, dismount the card wire outgoing from the connector CN601 on the CD amplifier P.C. board attached to the CD player ass'y.

9. From the connector CN705 on the LCD microcomputer P.C. board, dismount the #6PIN parallel wire outgoing from FW501 on the CD amplifier P.C. board.

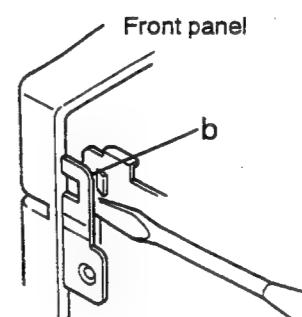


Fig. 7-9

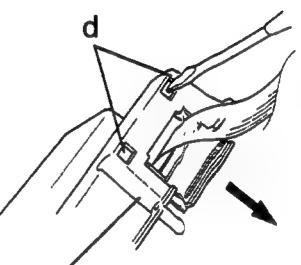


Fig. 7-10

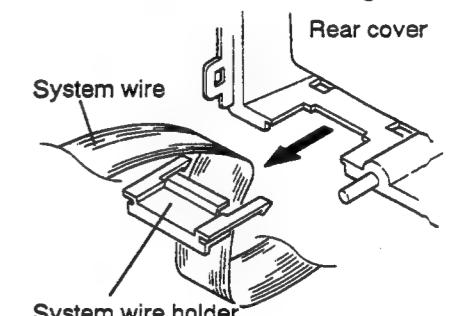


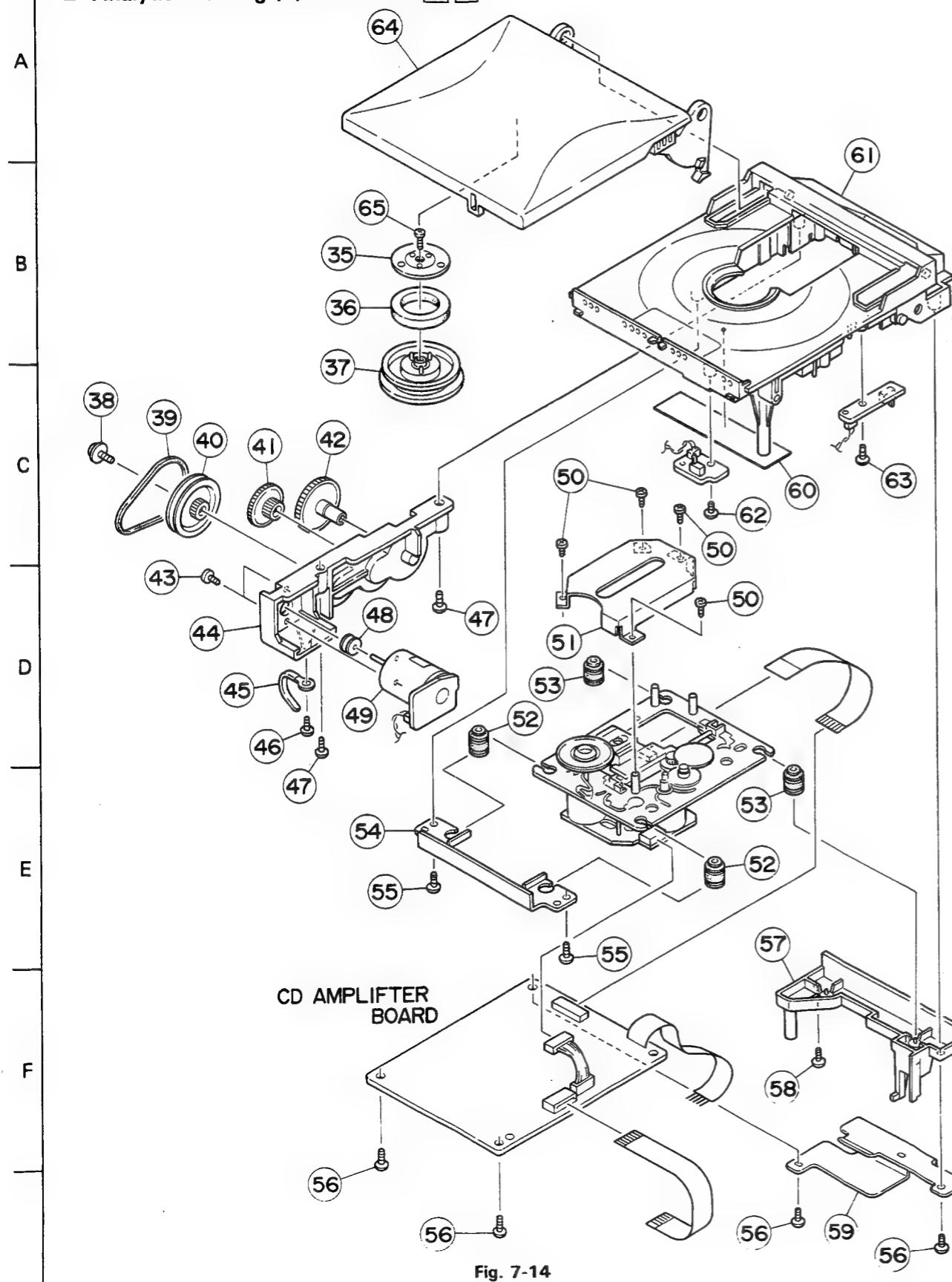
Fig. 7-11

**■ Analytic Drawing (3) Parts List M 3**

| BLOCK NO. M3MM |      |             |                 |                 |     |        |
|----------------|------|-------------|-----------------|-----------------|-----|--------|
| A              | REF. | PARTS NO.   | PARTS NAME      | REMARKS         | QTY | SUFFIX |
|                | 1    | SDSF3008Z   | SCREW           | CD+CHASSIS UNIT | 2   |        |
|                | 2    | VJC2411-004 | METAL COVER     |                 | 1   |        |
|                | 3    | SDST3006M   | SCREW           | METAL COVER     | 4   |        |
|                | 4    | VND4221-001 | CLASS 1 LABEL   |                 | 1   |        |
|                | 5    | VJF4003-003 | FOOT            |                 | 4   |        |
|                | 6    | SBSF3008N   | T-SCREW         |                 | 1   |        |
|                | 7    | VYH7707-001 | WIRE HOLDER     | SYSTEM WIRE 94H | 1   |        |
|                | 8    | VJG1137-001 | REAR PANEL(T)   |                 | 1   |        |
|                | 9    | VYN9214-001 | NAME PLATE      |                 | 1   |        |
|                | 10   | SBSF3008N   | T-SCREW         |                 | 1   |        |
|                | 11   | EMV7130-017 | WIRE HOLDER     | FOR SYSTEM WIRE | 1   |        |
|                | 12   | VMP0092-001 | SYSTEM WIRE ASY | JWF01           | 1   |        |

1 | 2 | 3 | 4 | 5

## ■ Analytic Drawing (5): Block No. M 5



## ■ Analytic Drawing (5) Parts List

| BLOCK NO. M5MM |              |                 |                  |     |        |     |
|----------------|--------------|-----------------|------------------|-----|--------|-----|
| REF.           | PARTS NO.    | PARTS NAME      | REMARKS          | QTY | SUFFIX | CLR |
| 35             | VYH7677-201  | YOKE            |                  | 1   |        |     |
| 36             | VYH7313-001R | MAGNET          |                  | 1   |        |     |
| 37             | VYH7326-001  | CLAMPER         |                  | 1   |        |     |
| 38             | GBSF3006Z    | SCREW           | PULLEY+GEAR BKT  | 1   |        |     |
| 39             | VKB3000-144Y | BELT            |                  | 1   |        |     |
| 40             | VYH7356-002  | PULLEY          |                  | 1   |        |     |
| 41             | VYH7357-001  | GEAR(A)         |                  | 1   |        |     |
| 42             | VYH7358-001  | GEAR(B)         |                  | 1   |        |     |
| 43             | SPSP3004Z    | SCREW           | MOTOR+GEAR BKT   | 2   |        |     |
| 44             | VYH7385-001  | GEAR BKT        |                  | 1   |        |     |
| 45             | VKZ4001-110  | WIRE CLAMP      |                  | 1   |        |     |
| 46             | SBSF3010Z    | SCREW           | FOR WIRE CLAMP   | 1   |        |     |
| 47             | SBSF3010Z    | SCREW           | CD CASE+GEAR BK  | 2   |        |     |
| 48             | VYH7699-001  | PULLEY          | MOTOR            | 1   |        |     |
| 49             | MXN-13FB12F  | DC MOTOR ASS'Y  | CASSETTE DOOR    | 1   |        |     |
| 50             | SDST2006M    | SCREW           | CD MECHA+P.COVE  | 4   |        |     |
| 51             | VJD5410-005  | PICK COVER      |                  | 1   |        |     |
| 52             | E75609-002   | INSULATOR       |                  | 2   |        |     |
| 53             | E75609-001   | INSULATOR       |                  | 2   |        |     |
| 54             | VYH7815-001  | CD MECHA HOLDER |                  | 1   |        |     |
| 55             | SBSF3010Z    | SCREW           | CASE+HOLDER      | 2   |        |     |
| 56             | SBSF3010Z    | SCREW           | CD AMP PWB+CD    | 4   |        |     |
| 57             | VYH7390-001  | CD MECHA HOLDER |                  | 1   |        |     |
| 58             | SBSF3010Z    | SCREW           | CASE+HOLDER      | 1   |        |     |
| 59             | VMA3215-001  | SHIELD(CD)      | FOR CD MECHA WIR | 1   |        |     |
| 60             | VND4220-001  | LASER CAUTION   |                  | 1   |        |     |
| 61             | VJD1177-001  | CD CASE         |                  | 1   |        |     |
| 62             | SBSF3006Z    | SCREW           | SW PWB+CD CASE   | 1   |        |     |
| 63             | SBSF3010Z    | SCREW           | SW-PWB*CD CASE   | 1   |        |     |
| 64             | VJT2328-001  | CD DOOR         |                  | 1   |        |     |
| 65             | SBSF2606Z    | SCREW           | FOR CLAMPER      | 1   |        |     |

• **CD Amplifier P.C. Board (Fig. 7-14, 15)**

1. Remove the three screws 56 retaining the CD amplifier P.C. board from the CD player ass'y.
2. From the optical pickup unit P.C. board, pull out the card wire outgoing from the connector CN501 on the CD amplifier P.C. board.
3. From the connector P011 on the spindle feed motor P.C. board, dismount the #6PIN connector outgoing from the connector CN502 on the CD amplifier P.C. board.

• **CD Mechanism Ass'y (Fig. 7-14, 16)**

By removing the three screws ( 55 × 2 and 58 × 1) simultaneously retaining the CD mechanism, rear and front brackets, separate the CD mechanism ass'y (from the brackets).

• **CD Door Motor Ass'y (Fig. 7-14, 16 ~ 18)**

Insert a minus screw driver into the positions (h) and (i) when the right and left CD door assemblies and CD cases are engaged, and dismount the CD door assemblies.

• **CD Door Motor Ass'y (Fig. 7-14, 16)**

Remove the two screws 47 retaining the CD door assemblies from the CD cases.

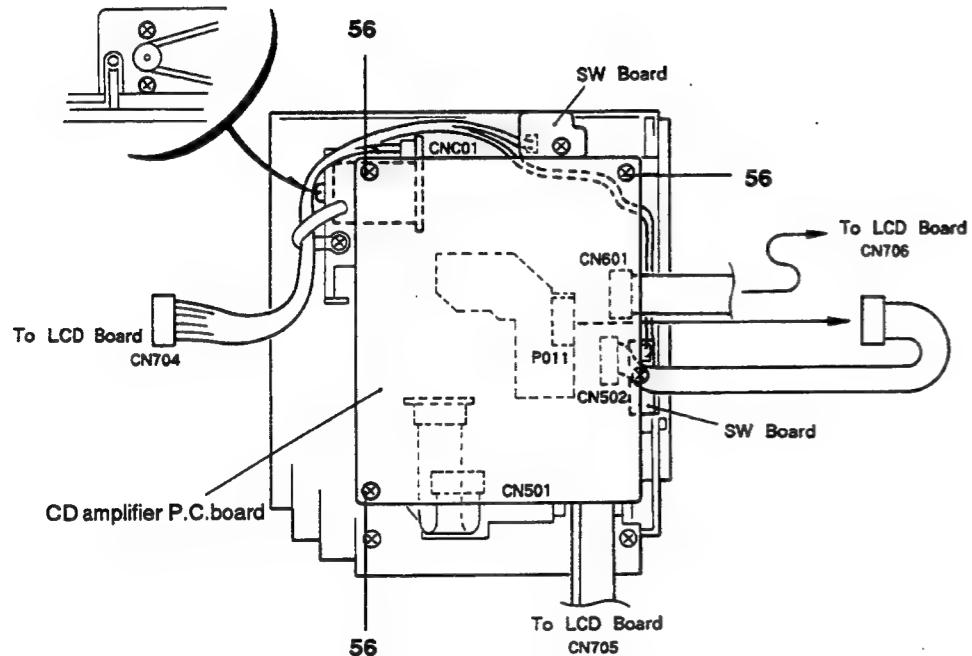


Fig. 7-15

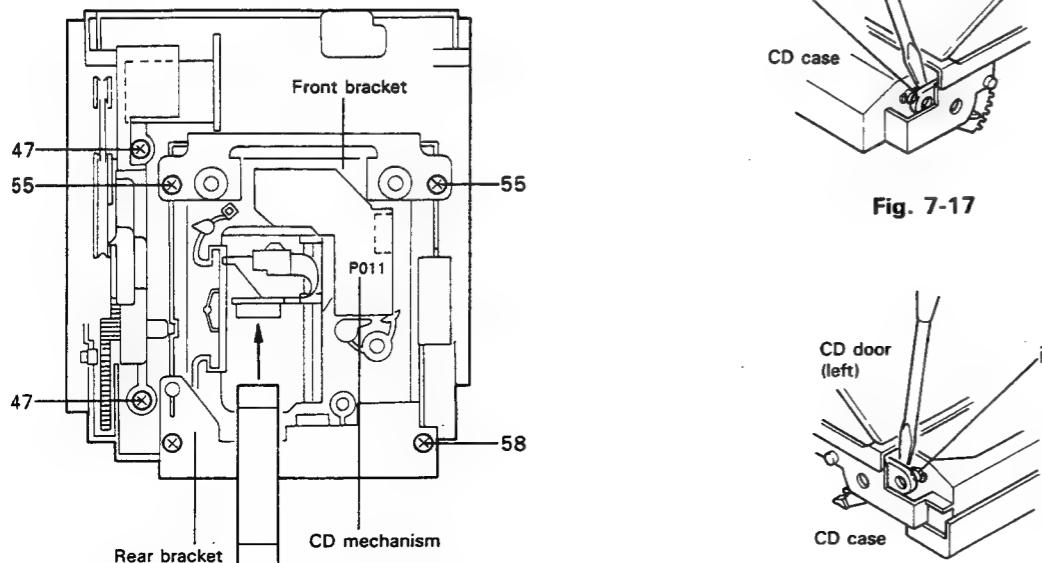


Fig. 7-16

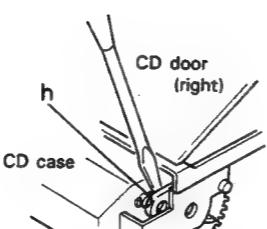


Fig. 7-17

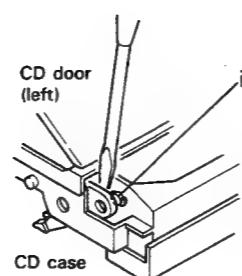


Fig. 7-18

## ■ CD/Tuner Section

Color codes are shown below.

- 1 ..... Brown
- 2 ..... Red
- 3 ..... Orange
- 4 ..... Yellow
- 5 ..... Green
- 6 ..... Blue
- 7 ..... Violet
- 8 ..... Gray
- 9 ..... White
- 0 ..... Black
- D ..... Pink
- C ..... Light Blue

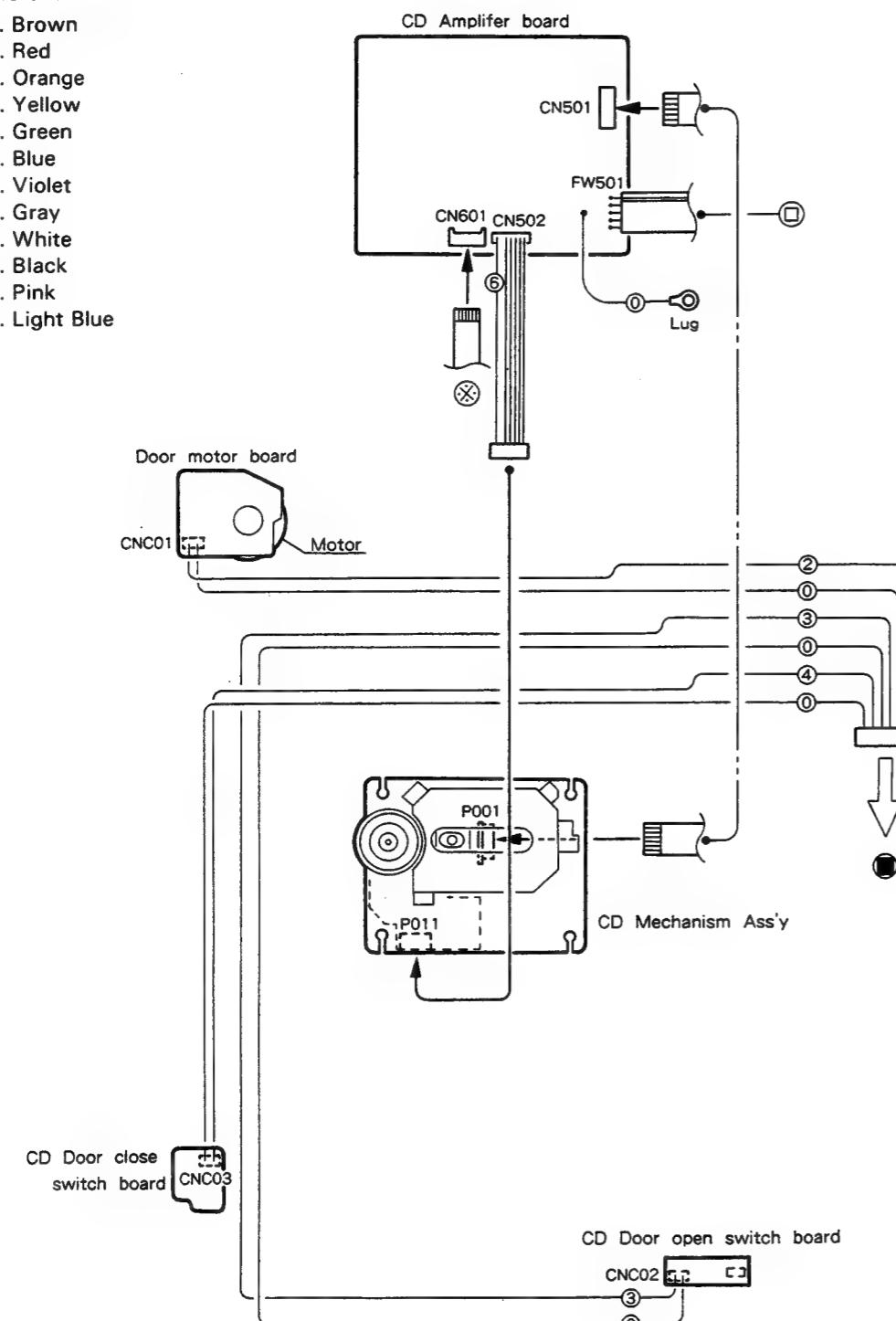


Fig. 10-2

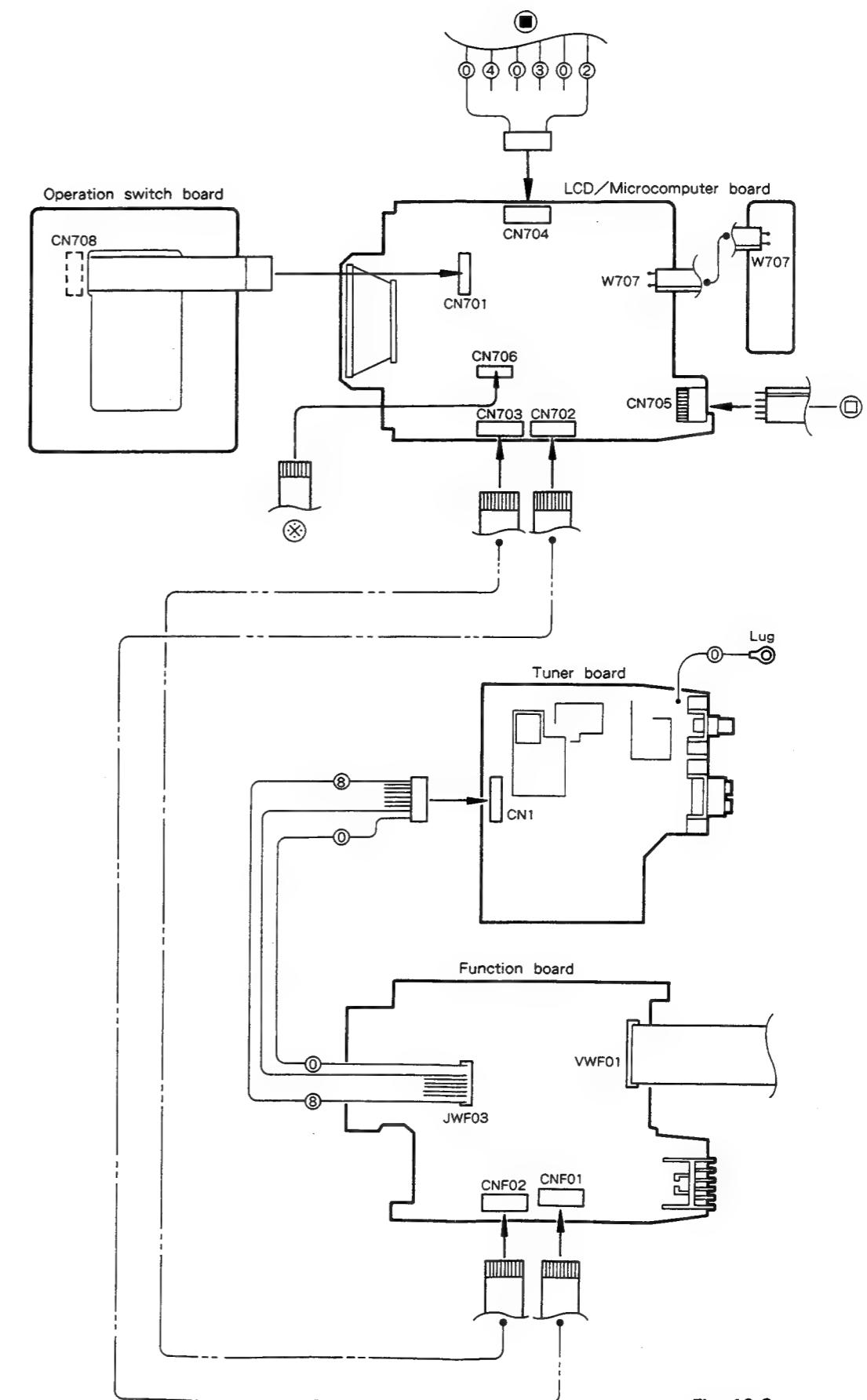
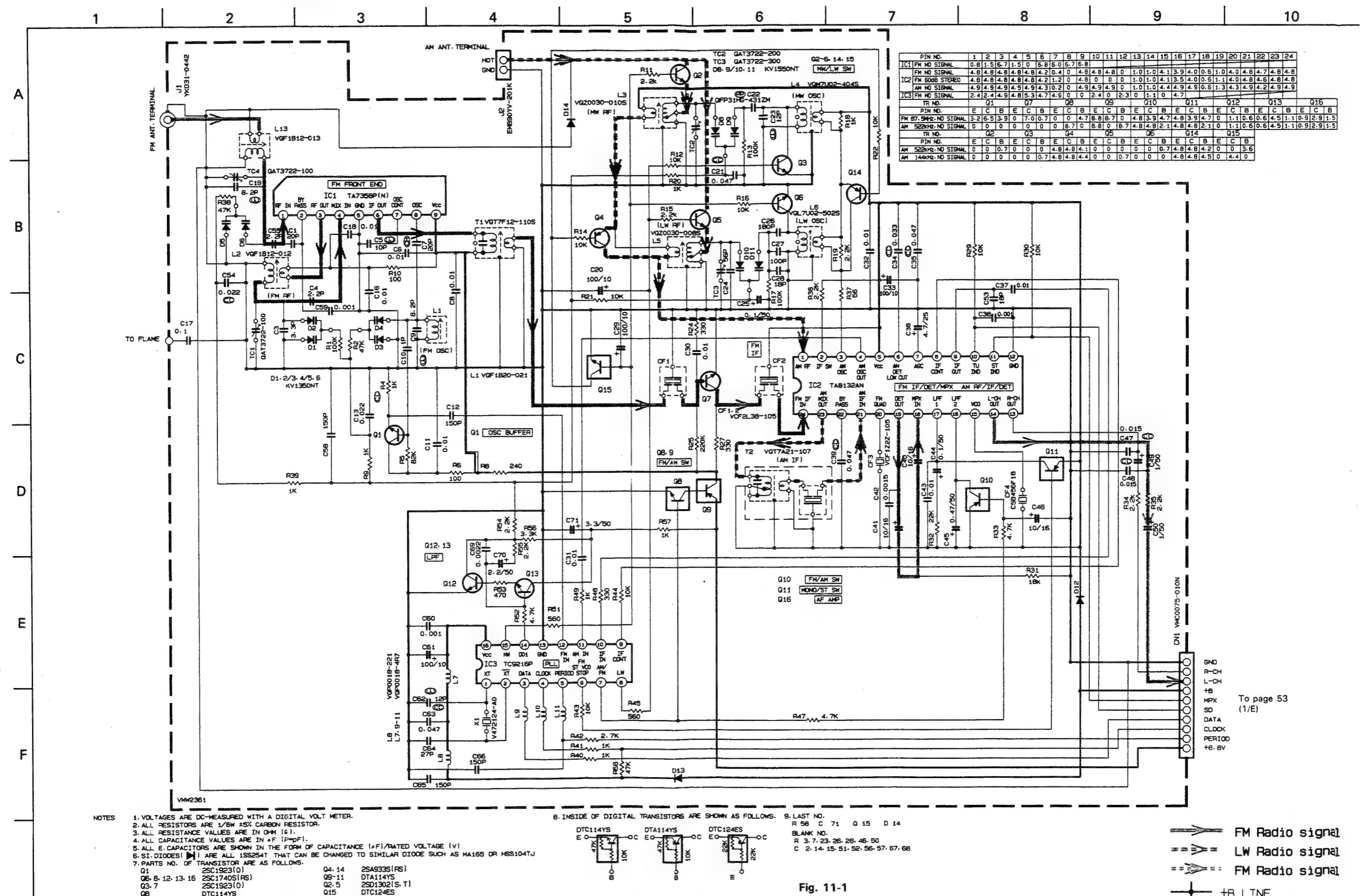


Fig. 10-3

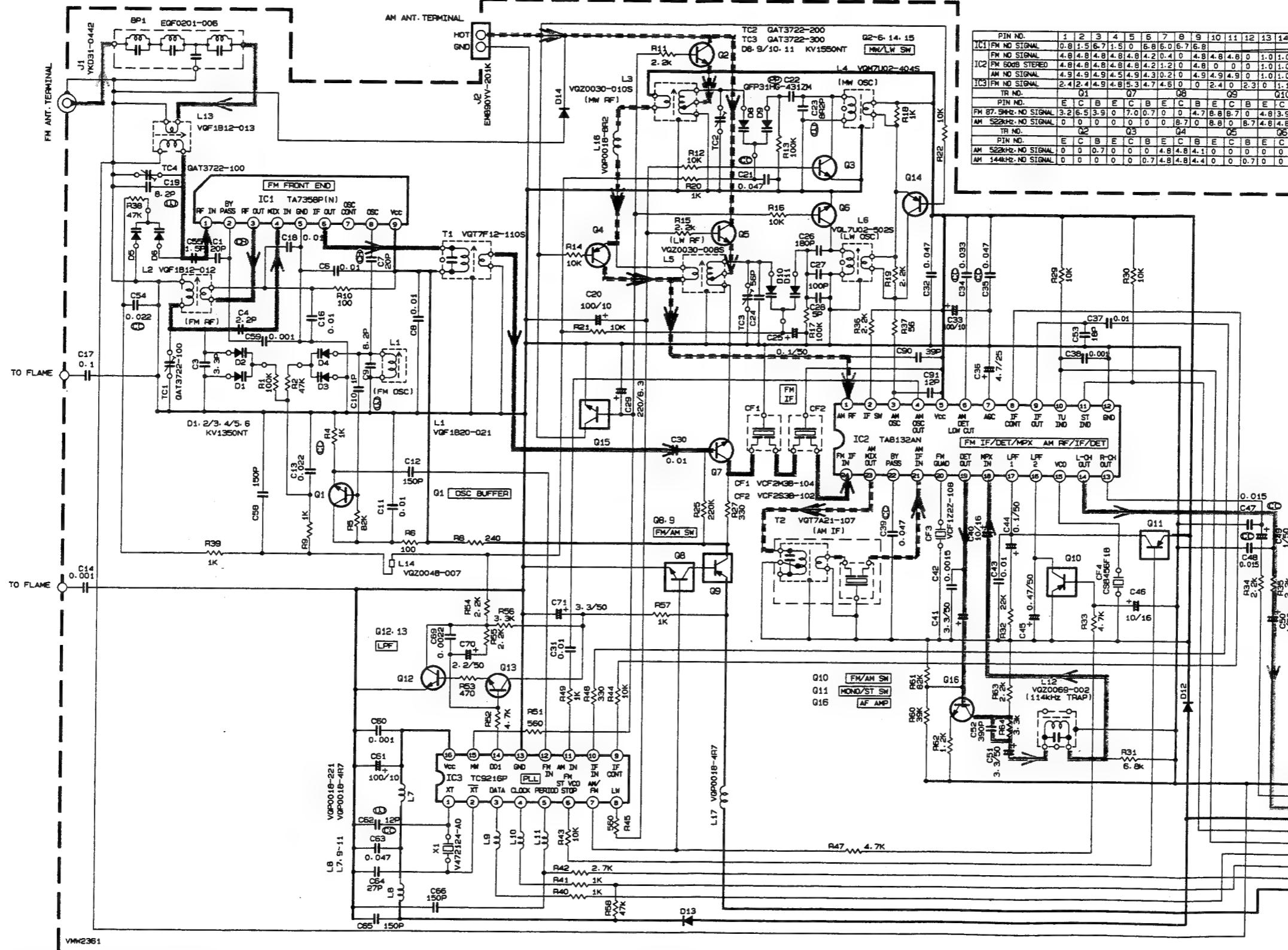
11. Standard Schematic Diagram ■ Tuner Circuit: Drawing No. VDH9214-005TW (UX-A4 B/E/EN)



**Fig. 11-1**

## ■ Tuner Circuit: Drawing No. VDH9214-008TW (UX-A4 G/GI)

11 12 13 14 15 16 17 18 19 20



| PIN NO.             | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| IC1 FM NO SIGNAL    | 0.8 | 1.5 | 6.7 | 1.5 | 0   | 6.8 | 6.6 | 6.7 | 6.8 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| FM NO SIGNAL        | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |     |
| IC2 FM 600Hz STEREO | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |     |
| AM NO SIGNAL        | 4.9 | 4.9 | 4.9 | 4.5 | 4.9 | 4.5 | 4.9 | 4.5 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |     |
| IC3 FM NO SIGNAL    | 2.4 | 2.4 | 4.9 | 4.8 | 5.3 | 4.7 | 6.0 | 0   | 2.4 | 0   | 2.3 | 0   | 1.1 | 0   | 4.7 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |
| TR NO.              | 01  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| PIN NO.             | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |
| IC1 FM NO SIGNAL    | 0.8 | 1.5 | 6.7 | 1.5 | 0   | 6.8 | 6.6 | 6.7 | 6.8 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| FM NO SIGNAL        | 3.2 | 6.5 | 3.9 | 0   | 7.0 | 0.7 | 0   | 0   | 4.7 | B.8 | B.7 | 0   | 4.8 | 3.9 | 4.7 | 4.8 | 3.9 | 4.7 | 0   | 1.1 | 0.6 | 4.5 | 1.1 | 0.9 |
| AM 522kHz NO SIGNAL | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| TR NO.              | 02  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| PIN NO.             | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |
| AM 522kHz NO SIGNAL | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| AM 344kHz NO SIGNAL | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

A

B

C

D

E

F

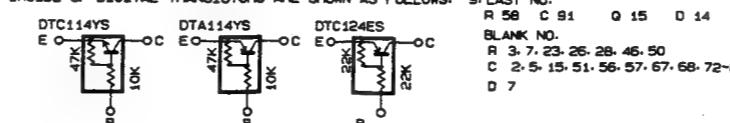
To page 53  
(1/E)GND  
R-CH  
L-CH  
MONO/ST SW  
MPX  
SD  
DATA  
CLOCK  
PERIOD  
+B LINE

Fig. 11-2

NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
  - ALL RESISTORS ARE 1/8W ±5% CARBON RESISTOR.
  - ALL RESISTANCE VALUES ARE IN OHM (Ω).
  - ALL CAPACITANCE VALUES ARE IN μF (PF).
  - ALL C CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
  - SI DIODES (■) ARE ALL 1SS254T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104TJ.
  - PARTS NO. OF TRANSISTOR ARE AS FOLLOWS:
- |                    |              |       |              |
|--------------------|--------------|-------|--------------|
| Q1-3, 7            | 2SC2668(0)   | Q4-14 | 2SA1175(HFE) |
| Q6-8, 12-13, 15-16 | 2SC2785(E,F) | Q9-11 | DTA114YS     |
| Q8                 | DTA114YS     | Q2-5  | 2SD1302(S,T) |
| Q15                | DTA124ES     | Q16   | DTA124ES     |

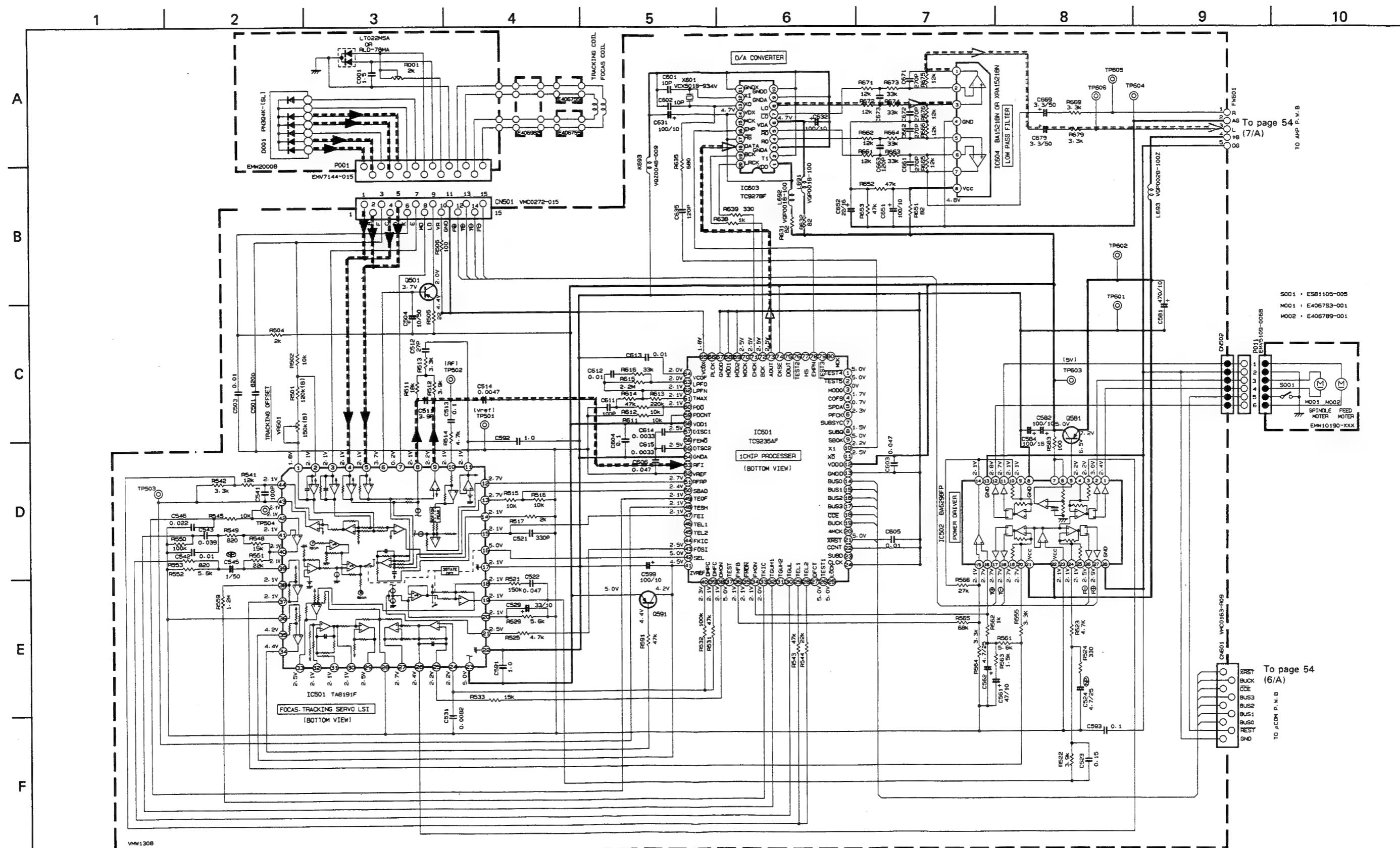
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.

9. LAST NO.

|                                      |      |      |      |
|--------------------------------------|------|------|------|
| R 58                                 | C 91 | Q 15 | D 14 |
| BLANK NO.                            |      |      |      |
| R 3-7, 23-26, 46, 50                 |      |      |      |
| C 2-5, 15, 51, 56, 57, 67, 68, 72-89 |      |      |      |
| D 7                                  |      |      |      |

- ==> LW Radio signal  
=> MW Radio signal  
=> FM Radio signal  
+B LINE

■ CD Amplifier Circuit: Drawing No. VDH9214-005CV (All version)



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER IN PLAYBACK
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE  $1/8W \pm 5\%$  CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN OHM(Ω).  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN  $\mu F$ ( $\mu F$ =F).  
ALL INDUCTANCE VALUES ARE IN  $\mu H$ ( $\mu H$ =H).  
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE ( $\mu F$ )/RATED VOLTAGE (V).

- UNFLAMMABLE CARBON RESISTOR
- METAL FILM RESISTOR
- OXIDE METAL FILM RESISTOR
- ±20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR
- NON-POLARISED ELECTROLYTIC CAPACITOR
- POLYPROPYLENE CAPACITOR
- POLYSTYROL CAPACITOR

Q501 2SA952(L,K)  
Q581  
Q591 2SA1309(R,S) OR 2SA1175(HFE) OR 2SA933(SRS)

(No. 1890) 52

**Fig. 11-3**

--> CD Digital signal  
--> CD Analog signal  
+8 LINE

## ■ Function/Line Amplifier Circuit: Drawing No. VDH9214-005BV

1 2 3 4 5 6 7 8 9 10

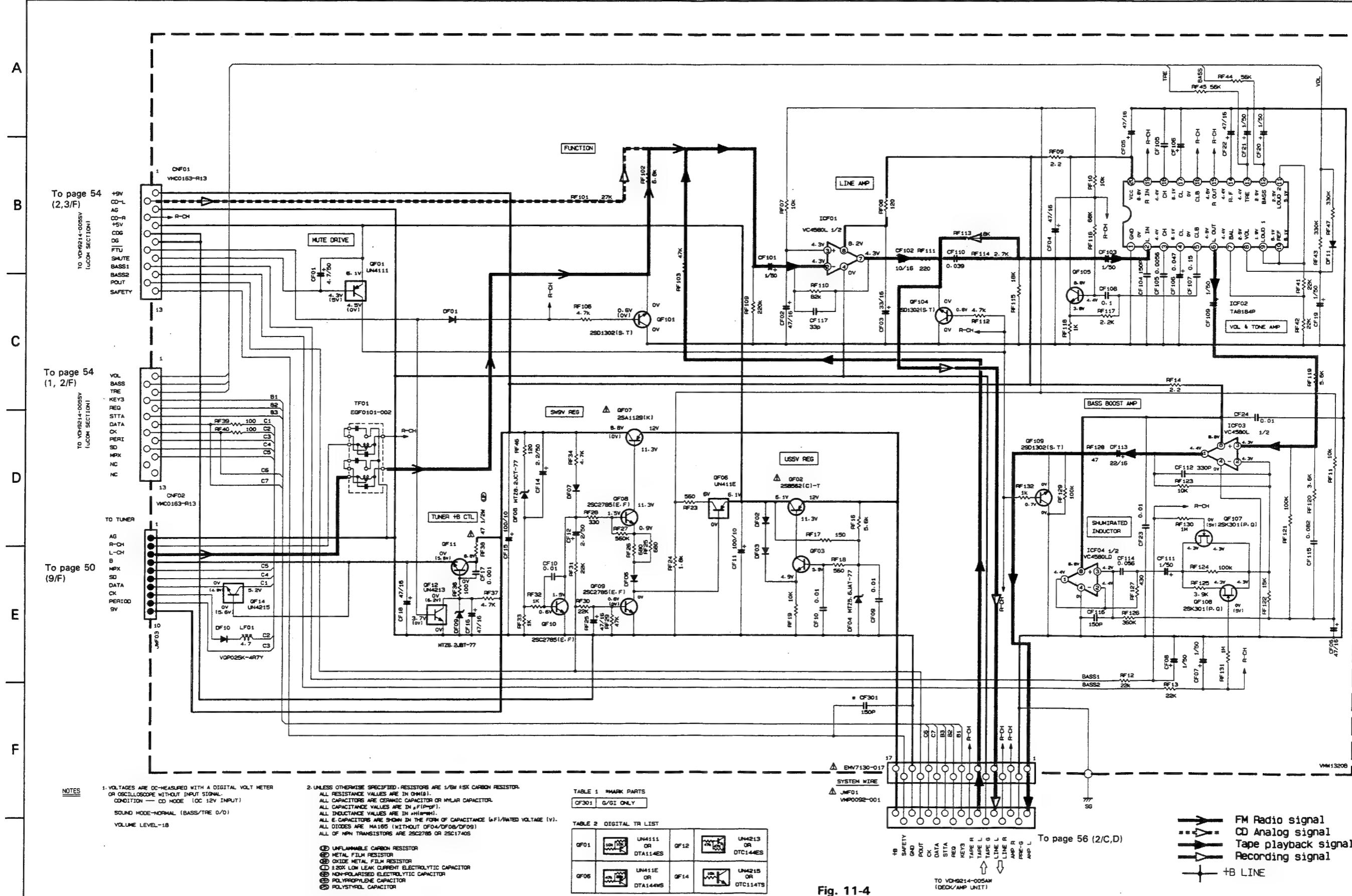
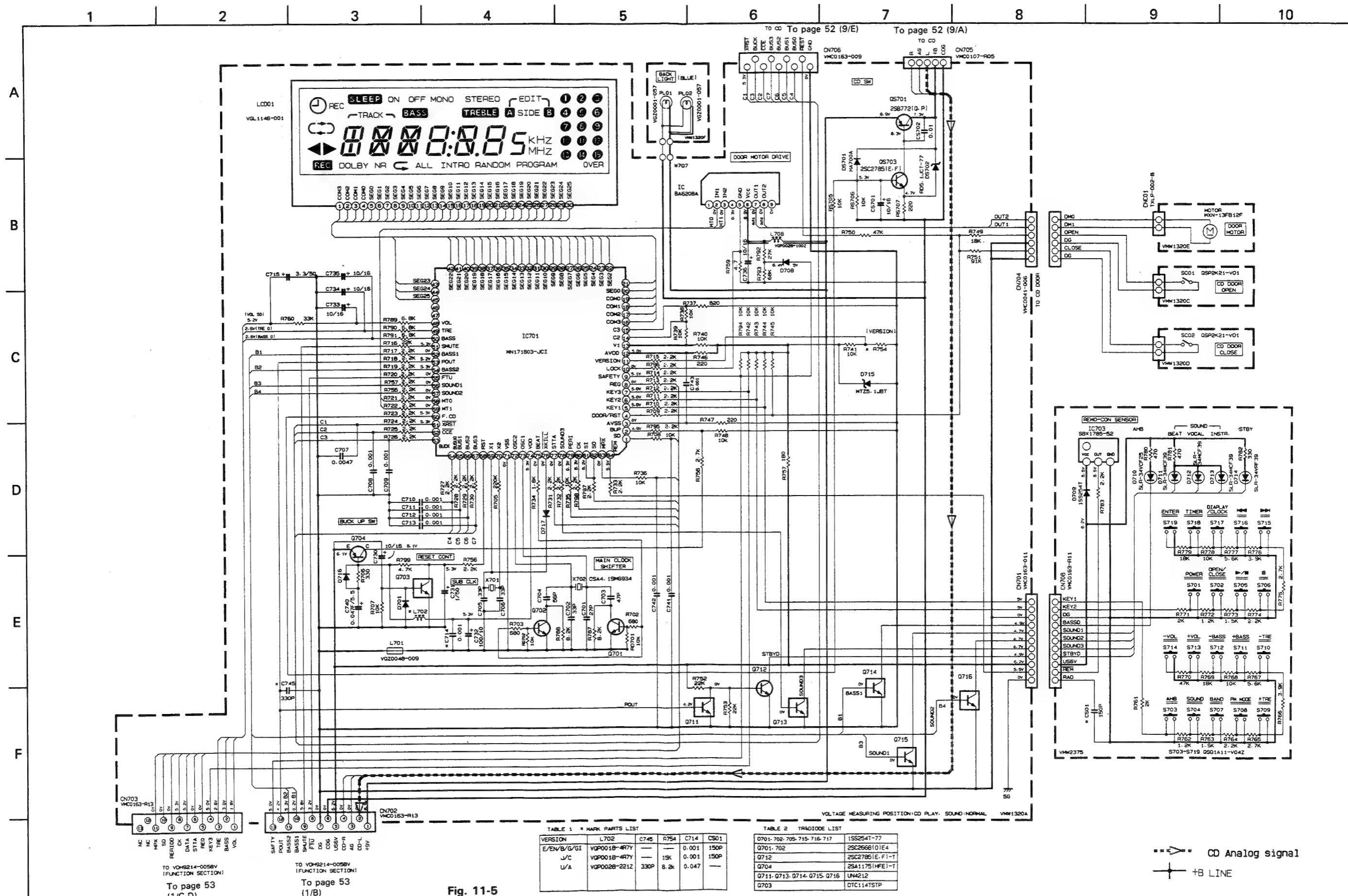


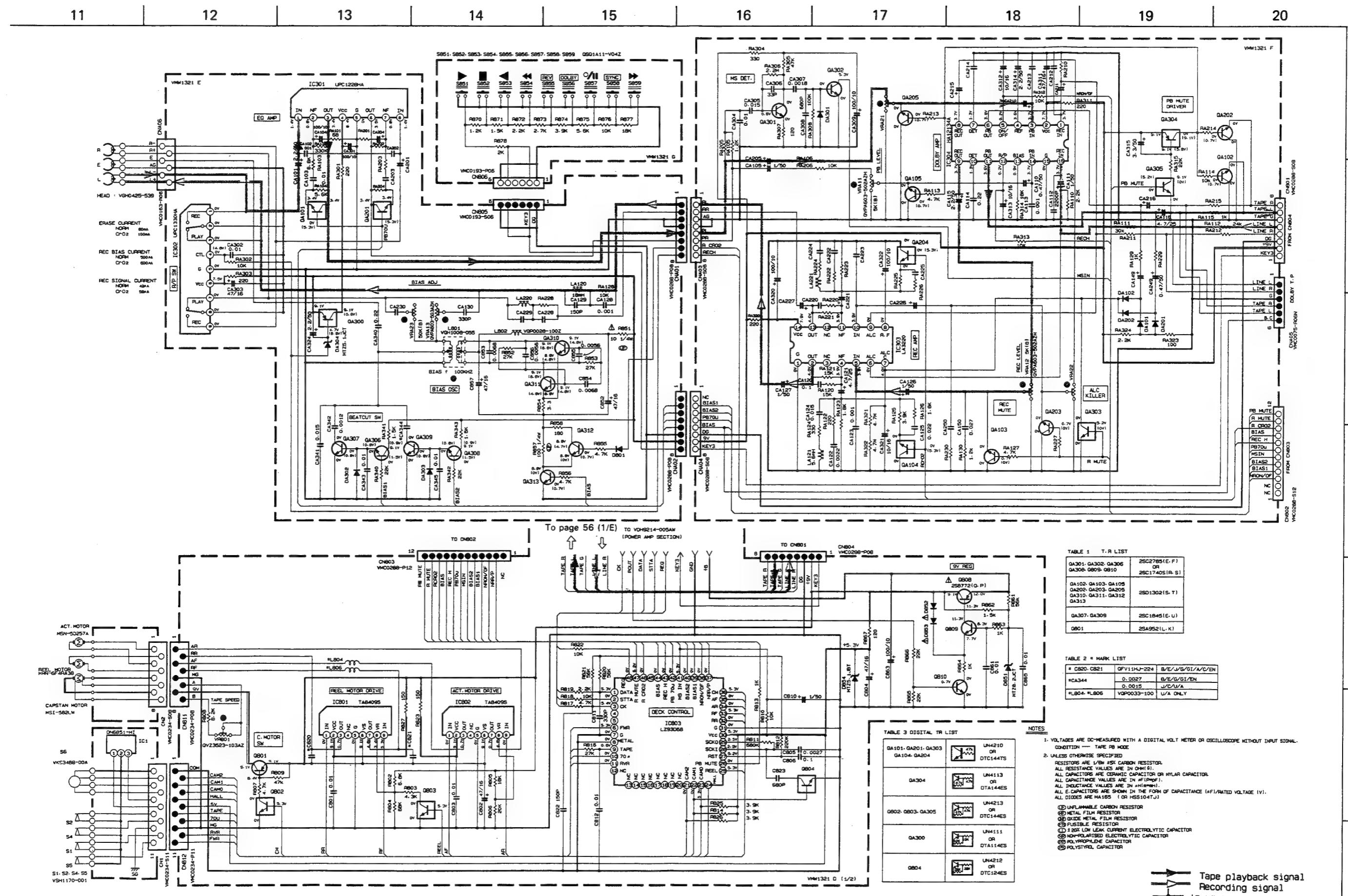
Fig. 11-4

■ LCD/Micro Computer Circuit: Drawing No. VDH9214-005SV (All version)



**Fig. 11-5**

■ Pre-Amplifier Circuit: Drawing No. VDH9214-005PV (All versions)

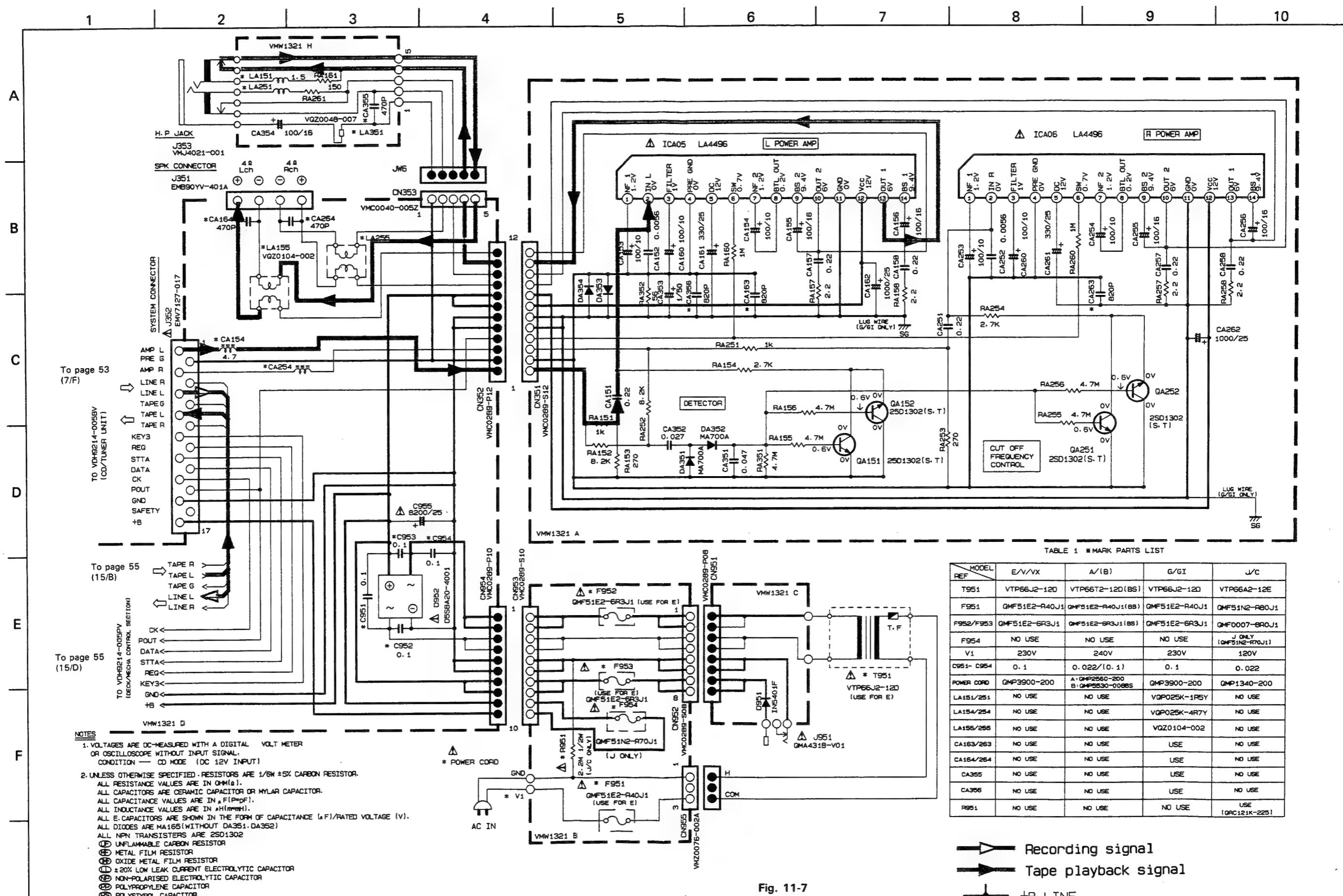


**Fig. 11-6**

 Tape playback signal  
 Recording signal  
 +B LINE

(No. 1890) 55

## ■ Power Supply/Power Amplifier Circuit: Drawing No. VDH9214-005AW (All version)



## 12. Location of P.C. Board Parts

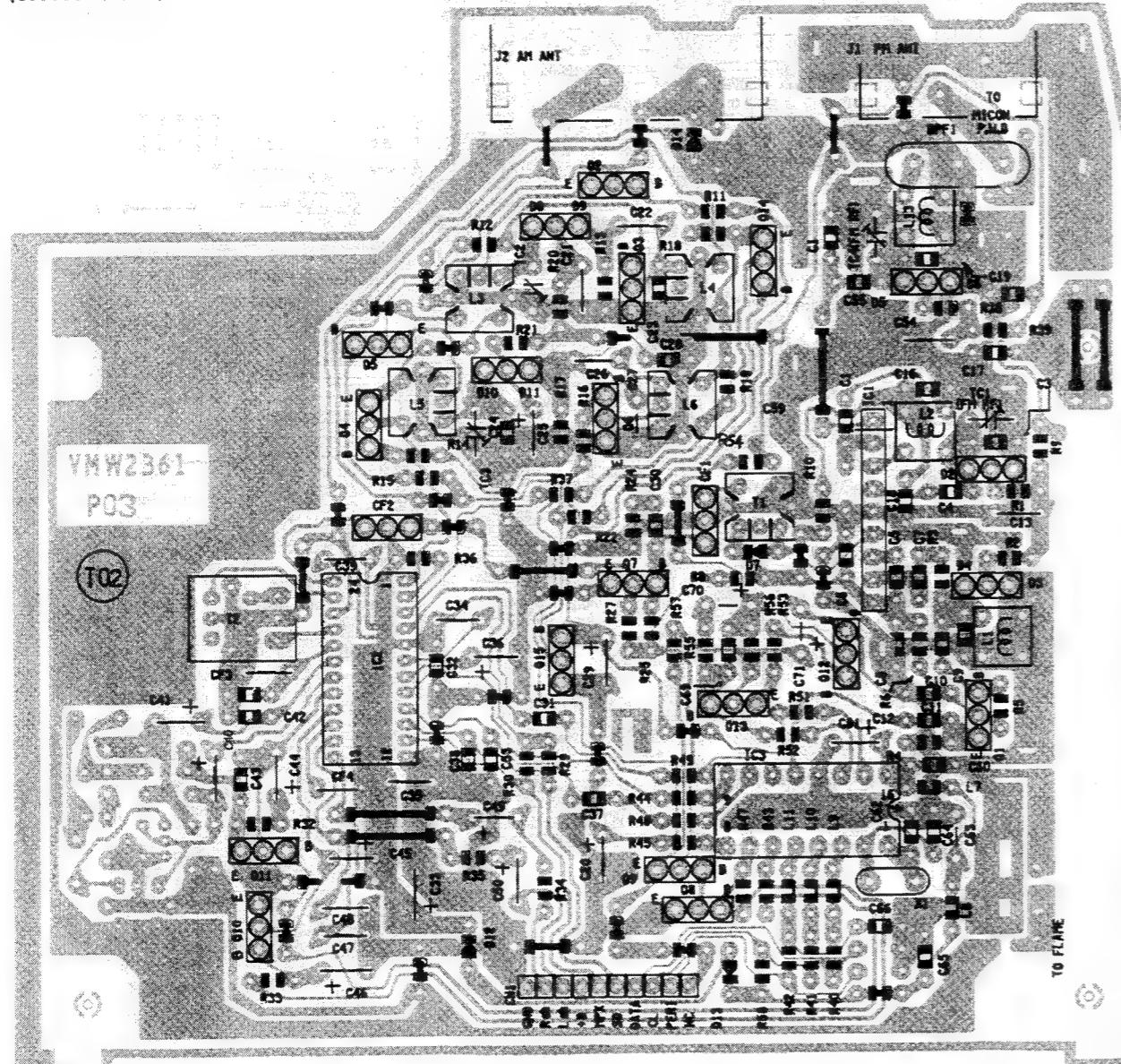
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

### CD/Tuner Section

#### ■ Tuner P.C. Board: Drawing No. VMW2361, Block No. 0 9

A

(UX-A4 B/E/EN)



B

(UX-A4 G/GI)

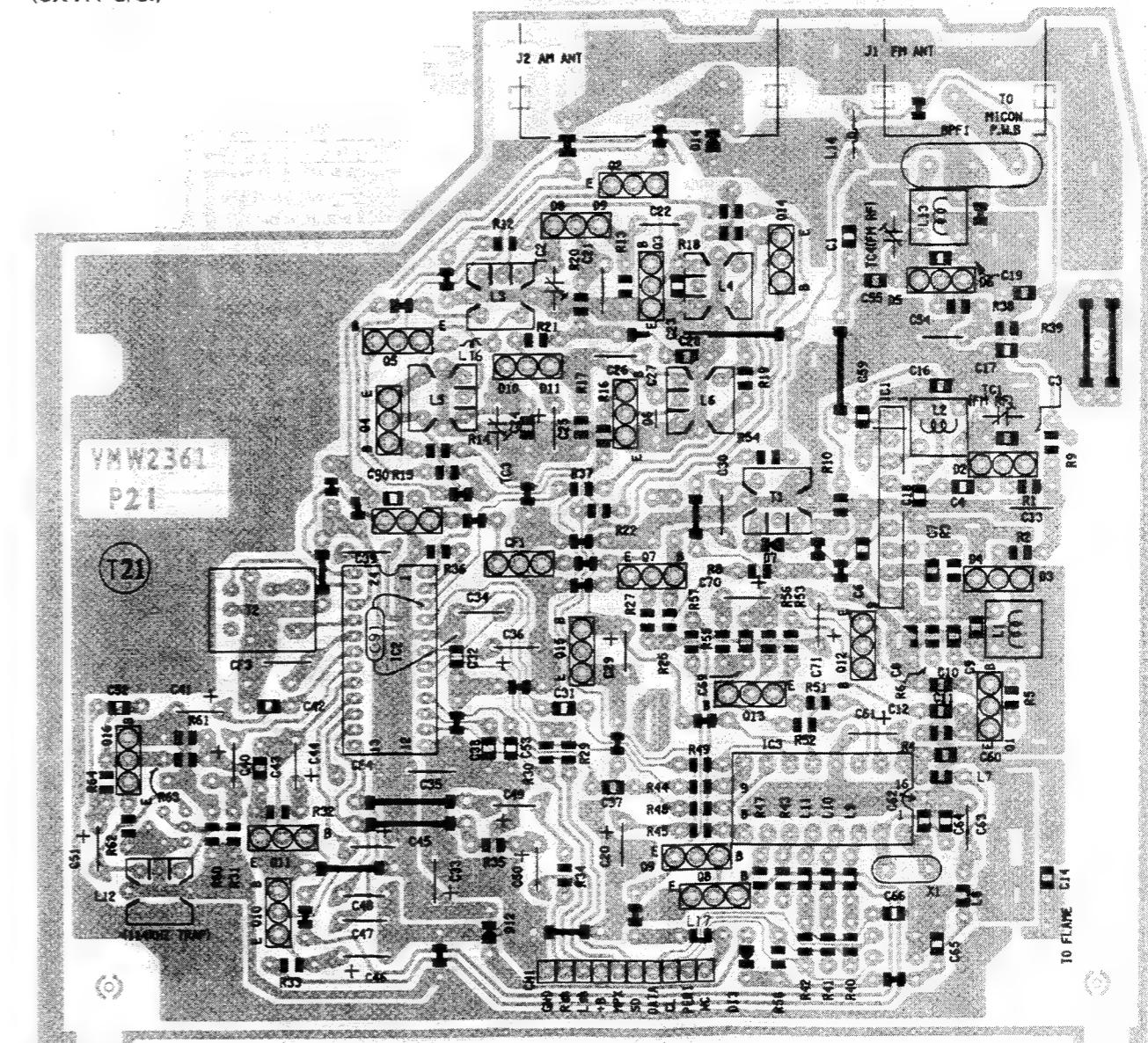


Fig. 12-1

Fig. 12-2

1      2      3      4      5      6      7      8      9      10

■ LCD/Micro Computer P.C. Board: Drawing No. VMW1320A, Block No. 0 5

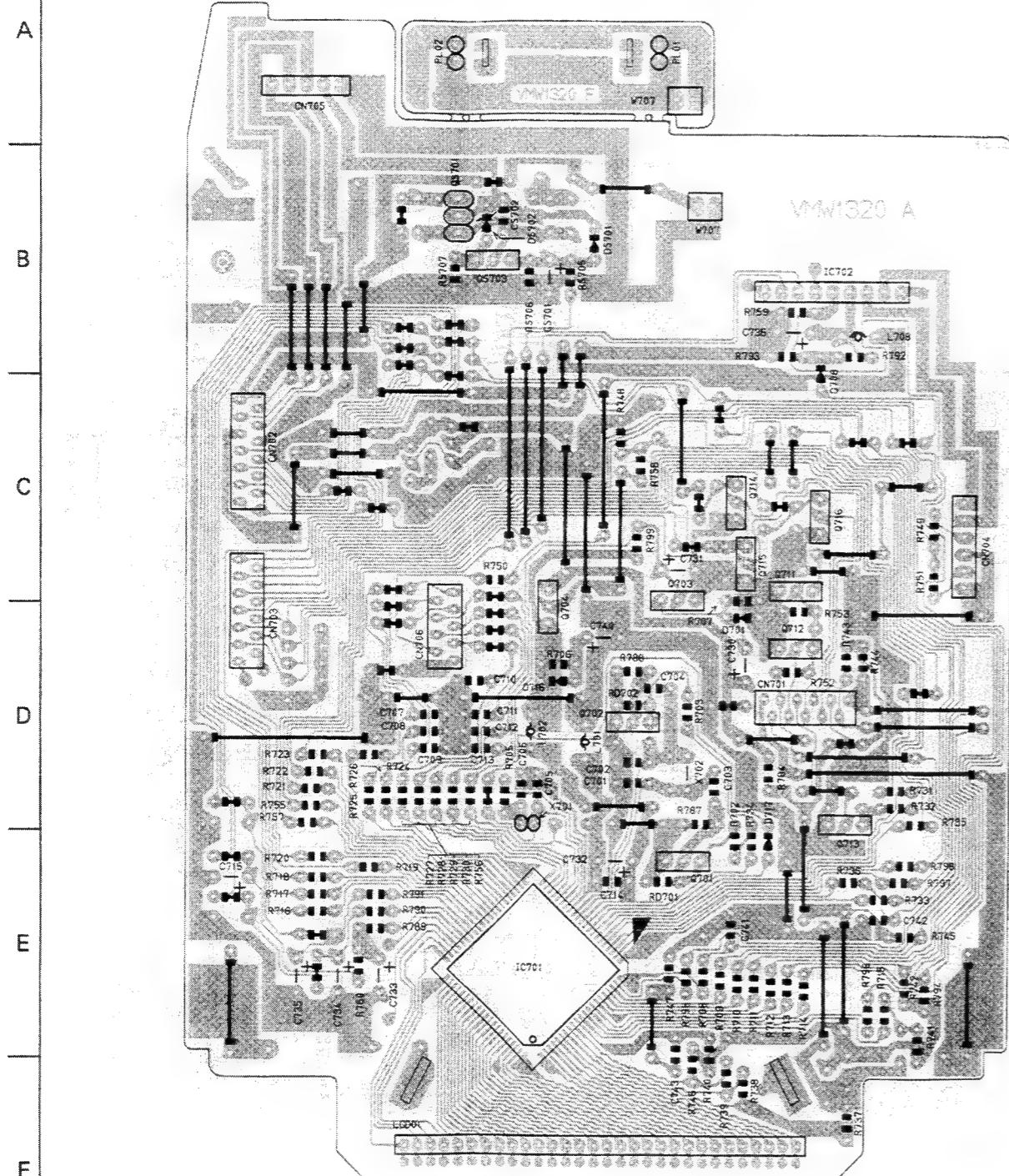


Fig. 12-3

■ CD Door Motor P.C. Board:  
Drawing No. VMW1320E  
Block No. 0 5

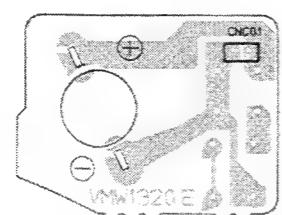


Fig. 12-4

■ Function P.C. Board: Drawing No. VMW1320B, Block No. 0 6

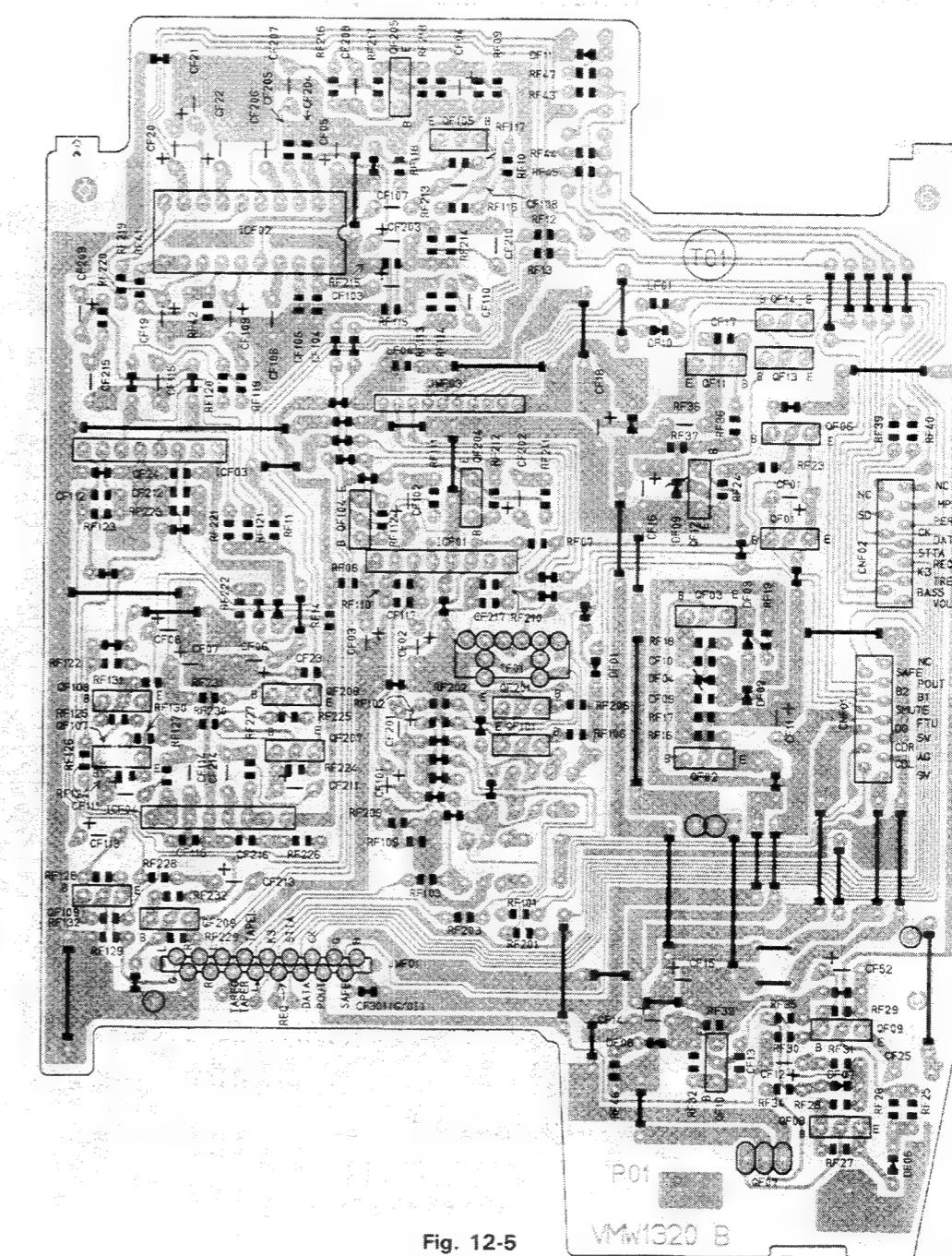


Fig. 12-5

■ CD Door Close Switch  
P.C. Board  
: Drawing No. VMW1320D  
Block No. 0 5

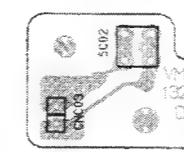


Fig. 12-6

■ CD Door Open Switch  
P.C. Board  
: Drawing No. VMW1320C  
Block No. 0 5

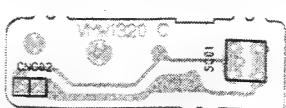


Fig. 12-7

## 13. Electrical Parts

1 ..... 2 ..... 3 ..... 4 ..... 5

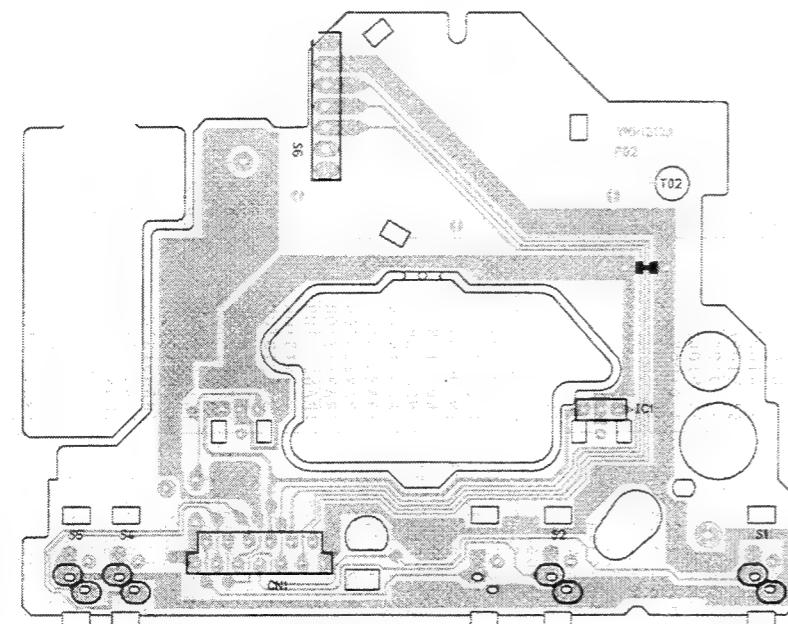


Fig. 12-1

■ Actuator/Reel Motor P.C. Board: Drawing No. VMW1312

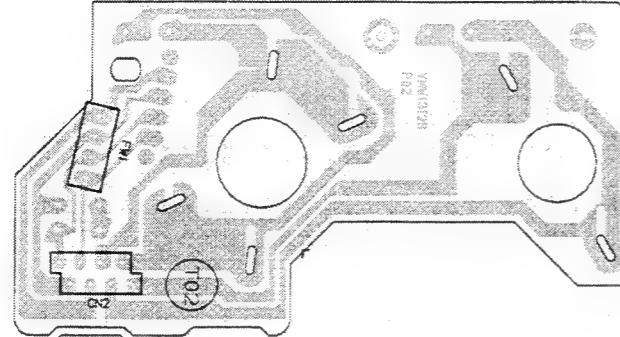


Fig. 12-1

- Power Supply P.C. Board

- Head Phone Jack P.C. Board

- Mechanism Control P.C. Board

UX-A4 B/E/G/GI/EN

UX-A4 B/E/G/GI/EN

| REF.  | PARTS NO.      | PARTS NAME   | REMARKS         | SUFFIX |
|-------|----------------|--------------|-----------------|--------|
| C 801 | QCVB1CM-103V   | C CAPACITOR  | .010MF 20% 16V  |        |
| C 802 | QEKA1CM-476    | E CAPACITOR  | .47MF 20% 16V   |        |
| C 803 | QCVB1CM-103Y   | C CAPACITOR  | .010MF 20% 16V  |        |
| C 804 | QEKA1CM-476    | E CAPACITOR  | .47MF 20% 16V   |        |
| C 805 | QCXB1CM-272Y   | C CAPACITOR  | .2700PF 20% 16V |        |
| C 806 | QCFV41HJ-104V  | C CAPACITOR  | .10NF +80% -20% |        |
| C 810 | QEKA1HM-105    | E CAPACITOR  | 1.0MF 20% 50V   |        |
| C 811 | QCBB1HK-331Y   | C CAPACITOR  | 330PF 10% 50V   |        |
| C 812 | QCVB1CM-103Y   | C CAPACITOR  | .010MF 20% 16V  |        |
| C 820 | QFV41HJ-224    | TF CAPACITOR | .22MF 5% 50V    |        |
| C 821 | QFV41HJ-224    | TF CAPACITOR | .22MF 5% 50V    |        |
| C 822 | QCBB1HK-151Y   | C CAPACITOR  | 1.50PF 10% 50V  |        |
| C 823 | QCBB1HK-681Y   | C CAPACITOR  | .6800PF 10% 50V |        |
| C 852 | QEKA1CM-476    | E CAPACITOR  | .47MF 20% 16V   |        |
| C 853 | QFLA1HK-6822M  | M CAPACITOR  | .6800PF 5% 50V  |        |
| C 854 | QFLA1HK-6822M  | M CAPACITOR  | .6800PF 5% 50V  |        |
| C 855 | QFLA1HK-5622M  | M CAPACITOR  | .5600PF 5% 50V  |        |
| C 856 | QFLA1HK-5622M  | M CAPACITOR  | .5600PF 5% 50V  |        |
| C 857 | QEKA1CM-476    | E CAPACITOR  | .47MF 20% 16V   |        |
| C 861 | QCVB1CM-103Y   | C CAPACITOR  | .010MF 20% 16V  |        |
| C 862 | QEKA1HM-1072H  | E CAPACITOR  | .100MF 20% 10V  |        |
| C 865 | QCVB1CM-103Y   | C CAPACITOR  | .010MF 20% 16V  |        |
| CA101 | QEKA1HM-225    | E.CAPA.      | 2.2MF 20% 50V   |        |
| CA102 | QCBB1HK-102Y   | C CAPACITOR  | .1000PF 10% 50V |        |
| CA103 | QFV71HJ-103    | TF CAPACITOR | .010MF 5% 50V   |        |
| CA104 | QEKA1HM-1072M  | E CAPACITOR  | .100MF 20% 10V  |        |
| CA105 | QEKA1HM-105    | E CAPACITOR  | 1.0MF 20% 50V   |        |
| CA110 | QEKA1HM-474    | E CAPACITOR  | .47MF 20% 50V   |        |
| CA111 | QEKA1HM-105    | E CAPACITOR  | 1.0MF 20% 50V   |        |
| CA112 | QCXB1CM-222Y   | C CAPACITOR  | .2200PF 20% 16V |        |
| CA113 | QCBB1HK-102Y   | C CAPACITOR  | .1000PF 10% 50V |        |
| CA114 | QFV41HJ-224    | TF CAPACITOR | .22MF 5% 50V    |        |
| CA115 | QEKA1HM-225    | E.CAPACITOR  | 2.2MF 20% 50V   |        |
| CA116 | QEKA1EM-475    | E.CAPACITOR  | 4.7MF 20% 25V   |        |
| CA120 | QFV41HJ-104    | TF CAPACITOR | .10MF 5% 50V    |        |
| CA121 | QEKA1EM-475    | E.CAPACITOR  | 4.7MF 20% 25V   |        |
| CA122 | QCXB1CM-222Y   | C CAPACITOR  | .2200PF 20% 16V |        |
| CA123 | QCBB1HK-102Y   | C CAPACITOR  | .1000PF 10% 50V |        |
| CA124 | QFV11HJ-153AZM | TF CAPACITOR | .022MF 5% 50V   |        |
| CA125 | QFV11HJ-223    | TF CAPACITOR | .022MF 5% 50V   |        |
| CA126 | QEKA1HM-105VM  | E CAPACITOR  | 1.0MF 20% 50V   |        |
| CA127 | QEKA1HM-105    | E CAPACITOR  | 1.0MF 20% 50V   |        |
| CA128 | QCBB1HK-102Y   | C CAPACITOR  | .1000PF 10% 50V |        |
| CA129 | QCBB1HK-151Y   | C CAPACITOR  | .150PF 10% 50V  |        |
| CA130 | QCBB1HK-331Y   | C CAPACITOR  | .330PF 10% 50V  |        |
| CA149 | QEKA1HM-474    | E CAPACITOR  | .47MF 20% 50V   |        |
| CA150 | QEKA1HM-273AZM | TF CAPACITOR | .027MF 5% 50V   |        |
| CA201 | QEKA1HM-225    | E.CAPA.      | 2.2MF 20% 50V   |        |
| CA202 | QCBB1HK-102Y   | C CAPACITOR  | .1000PF 10% 50V |        |
| CA203 | QFV71HJ-103    | TF CAPACITOR | .010MF 5% 50V   |        |
| CA204 | QEKA1HM-1072M  | E CAPACITOR  | 1.00MF 20% 10V  |        |
| CA205 | QEKA1HM-105    | E CAPACITOR  | 1.0MF 20% 50V   |        |
| CA210 | QEKA1HM-474    | E CAPACITOR  | .47MF 20% 50V   |        |
| CA211 | QCXY1CM-223Y   | C CAPACITOR  | .2200PF 20% 16V |        |
| CA212 | QCXY1CM-223Y   | C CAPACITOR  | .2200PF 20% 16V |        |

| BLOCK NO. 04 |                |              |                |
|--------------|----------------|--------------|----------------|
| ▲ REF.       | PARTS NO.      | PARTS NAME   | REMARKS        |
|              |                |              | SUFFIX         |
| CA213        | QCBB1HK-102Y   | C CAPACITOR  | 1000PF 10% 50V |
| CA214        | QFVA1HM-224    | TF CAPACITOR | .22MF 5% 50V   |
| CA215        | QEK1HM-225     | E. CAPACITOR | 2.2MF 20% 50V  |
| CA216        | QEKA1EM-475    | E. CAPACITOR | 4.7MF 20% 25V  |
| CA220        | QFVA1HM-104    | TF CAPACITOR | .10MF 5% 50V   |
| CA221        | QEKA1HM-475    | E. CAPACITOR | 4.7MF 20% 25V  |
| CA222        | QCXB1CM-222Y   | C CAPACITOR  | 2200PF 20% 16V |
| CA223        | QCBB1HK-102Y   | C CAPACITOR  | 1000PF 10% 50V |
| CA224        | QFVA1HM-153AZM | TF CAPACITOR | .015MF 5% 50V  |
| CA225        | QFVA1HJ-223    | TF CAPACITOR | .022MF 5% 50V  |
| CA226        | QEKA1HM-102VM  | E CAPACITOR  | 1.0MF 20% 50V  |
| CA227        | QEKA1HM-105Y   | E CAPACITOR  | 1.0MF 20% 50V  |
| CA228        | QCBB1HK-151Y   | C CAPACITOR  | 1000PF 10% 50V |
| CA229        | QCBB1HK-331Y   | C CAPACITOR  | 150PF 10% 50V  |
| CA230        | QCBB1HK-331Y   | C CAPACITOR  | 330PF 10% 50V  |
| CA249        | QEKA1HM-474    | E CAPACITOR  | .47MF 20% 50V  |
| CA250        | QFV11HJ-223AZM | TF CAPACITOR | .027MF 5% 50V  |
| CA301        | QEKG1AM-102ZM  | E CAPACITOR  | 100MF 20% 10V  |
| CA302        | QCXB1CM-103Y   | C CAPACITOR  | .010MF 20% 16V |
| CA303        | QEKA1CM-476    | E CAPACITOR  | .47MF 20% 16V  |
| CA304        | QFV11HJ-155AZM | TF CAPACITOR | .010MF 5% 50V  |
| CA305        | QFVA1H-330     | TF CAPACITOR | .015MF 5% 50V  |
| CA306        | QCS11HJ-330    | C CAPACITOR  | .33PF 5% 50V   |
| CA307        | QCXB1CM-182Y   | C CAPACITOR  | 1800PF 20% 16V |
| CA308        | QCBB1HK-681Y   | C CAPACITOR  | 680PF 10% 50V  |
| CA309        | QEKG1AM-107Z   | E CAPACITOR  | 100MF 20% 10V  |
| CA311        | QEKA1CM-476    | E CAPACITOR  | .47MF 20% 16V  |
| CA312        | QEKA1CM-106    | E CAPACITOR  | 10MF 20% 16V   |
| CA313        | QEKA1CM-106    | E CAPACITOR  | 10MF 20% 16V   |
| CA314        | QEKA1HM-225    | E. CAPACITOR | 2.2MF 20% 50V  |
| CA315        | QE1C1HM-331N   | E CAPACITOR  | 3.3MF 20% 50V  |
| CA320        | QEKG1AM-107ZM  | E CAPACITOR  | 100MF 20% 10V  |
| CA321        | QEKA1C-106     | E CAPACITOR  | 10MF 20% 16V   |
| CA322        | QEKG1AM-107ZM  | E CAPACITOR  | 100MF 20% 10V  |
| CA324        | QEKA1HM-225    | E.CAPA.      | 2.2MF 20% 50V  |
| CA340        | QFVA1HJ-224    | TF CAPACITOR | .22MF 5% 50V   |
| CA341        | QFP22AJ-153ZM  | PP CAPACITOR | .015MF 5% 100V |
| CA342        | QFNA1HM-122    | M. CAPACITOR | 1200PF 5% 50V  |
| CA343        | QCXB1CM-103Y   | C CAPACITOR  | .010MF 20% 16V |
| CA344        | QFNA1HM-222    | M CAPACITOR  | 2700PF 5% 50V  |
| CA345        | QCXB1CM-103Y   | C CAPACITOR  | .010MF 20% 16V |
| CNA01        | VMO288-P08     | CONNECTOR    | DOLBY T.P HEAD |
| CNA02        | VMO288-P08     | CONNECTOR    |                |
| CNA03        | VMO288-S08     | CONNECTOR    |                |
| CNA04        | VMO288-S08     | CONNECTOR    |                |
| CNA05        | VMO0075-R08N   | CONNECTOR    |                |
| CNA06        | VMO163-006     | CONNECTOR    |                |
| CNB01        | VNC0288-S08    | CONNECTOR    |                |
| CNB02        | VNC0288-S12    | CONNECTOR    |                |
| CNB03        | VNC0288-P12    | CONNECTOR    |                |
| CNB04        | VNG0288-P08    | CONNECTOR    |                |
| CNB05        | VMC0193-S06    | CONNECTOR    |                |
| CNB06        | VMC0193-P08    | CONNECTOR    |                |
| CNB11        | VNC0234-P08    | CONNECTOR    |                |

| BLOCK NO. 041111 |               |                |          |        |
|------------------|---------------|----------------|----------|--------|
| REF.             | PARTS NO.     | PARTS NAME     | REMARKS  | SUFFIX |
| D 801            | MA165         | SI DIODE       |          |        |
| D 851            | MT78-2JC      | Z DIODE        |          |        |
| D 852            | MA165         | SI DIODE       |          |        |
| D 853            | MA165         | SI DIODE       |          |        |
| D 854            | MT75-1JB      | Z DIODE        |          |        |
| DA101            | MA165         | SI DIODE       | ALC DET  |        |
| DA102            | MA165         | SI DIODE       | ALC DET  |        |
| DA201            | MA165         | SI DIODE       | ALC DET  |        |
| DA202            | MA165         | SI DIODE       | ALC DET  |        |
| DA301            | MA165         | SI DIODE       | ALC DET  |        |
| DA302            | MA165         | SI DIODE       | ALC DET  |        |
| DA303            | MA165         | SI DIODE       | ALC DET  |        |
| DA304            | MT75-1JC      | Z DIODE        | PB AMP   |        |
| IC301            | UPC1228HA     | IC             | R/P SW   |        |
| IC302            | UPC1330HA     | IC             |          |        |
| IC303            | LA3220        | IC             |          |        |
| IC304            | HA12134A      | IC             |          |        |
| IC801            | TAB409S       | IC             |          |        |
| IC802            | TAB409S       | IC             |          |        |
| IC803            | L79306B       | IC             |          |        |
| L 801            | VQH1008-055   | OSC COIL(BIAS) |          |        |
| L 802            | VGP0028-10Z   | INDUCTOR       |          |        |
| LA120            | VQP0001-183   | INDUCTOR       |          |        |
| LA121            | VQP0001-5622S | INDUCTOR       |          |        |
| LA220            | VQP0001-183   | INDUCTOR       |          |        |
| LA221            | VQP0001-5622S | INDUCTOR       |          |        |
| Q 801            | 2SA952 (L-K)  | TRANSISTOR     |          |        |
| Q 802            | DTCA14ES      | TRANSISTOR     |          |        |
| Q 803            | UN4213        | TRANSISTOR     |          |        |
| Q 804            | UN4212        | TRANSISTOR     |          |        |
| Q 808            | 2SB772 (Q-P)  | TRANSISTOR     |          |        |
| Q 809            | 2SC2785 (HFE) | TRANSISTOR     |          |        |
| Q 810            | 2SC2785 (HFE) | TRANSISTOR     |          |        |
| QA101            | UN4210        | TRANSISTOR     |          |        |
| QA102            | 2SD1302 (S-T) | TRANSISTOR     | PB MUTE  |        |
| QA103            | 2SD1302 (S-T) | TRANSISTOR     | REC MUTE |        |
| QA104            | UN4210        | TRANSISTOR     | CROM SW  |        |
| QA105            | 2SD1302 (S-T) | TRANSISTOR     |          |        |
| QA201            | UN4210        | TRANSISTOR     |          |        |
| QA202            | 2SD1302 (S-T) | TRANSISTOR     | PB MUTE  |        |
| QA203            | 2SD1302 (S-T) | TRANSISTOR     | REC MUTE |        |
| QA204            | UN4210        | TRANSISTOR     | CROM SW  |        |
| QA205            | 2SD1302 (S-T) | TRANSISTOR     |          |        |
| QA300            | UN4111        | TRANSISTOR     |          |        |
| QA301            | 2SC2785 (HFE) | TRANSISTOR     |          |        |
| QA302            | 2SC2785 (HFE) | TRANSISTOR     |          |        |
| QA303            | UN4210        | TRANSISTOR     |          |        |
| QA304            | DTA14ES       | TRANSISTOR     |          |        |
| QA305            | DTCA14ES      | TRANSISTOR     |          |        |
| QA306            | 2SC2785 (HFE) | TRANSISTOR     |          |        |
| QA307            | 2SC1845       | TRANSISTOR     |          |        |
| QA308            | 2SC2785 (HFE) | TRANSISTOR     |          |        |
| QA309            | 2SC1845       | TRANSISTOR     |          |        |
| QA310            | 2SD1302 (S-T) | TRANSISTOR     |          |        |

• Operation Key Switch P.C. Board

| ▲ REF. | PARTS NO.     | PARTS NAME                   | REMARKS | SUFFIX | BLOCK NO. [8] [8] [8] |
|--------|---------------|------------------------------|---------|--------|-----------------------|
| RF 19  | GRD161J-103   | CARBON RESISTOR 10K 5% 1/6W  |         |        |                       |
| RF 23  | GRD161J-561   | CARBON RESISTOR 560 5% 1/6W  |         |        |                       |
| RF 24  | GRD161J-182   | CARBON RESISTOR 1.8K 5% 1/6W |         |        |                       |
| RF 25  | GRD161J-681   | CARBON RESISTOR 680 5% 1/6W  |         |        |                       |
| RF 26  | GRD161J-681   | CARBON RESISTOR 680 5% 1/6W  |         |        |                       |
| RF 27  | GRD161J-564   | CARBON RESISTOR 560K 5% 1/6W |         |        |                       |
| RF 28  | GRD161J-331   | CARBON RESISTOR 330 5% 1/6W  |         |        |                       |
| RF 29  | GRD161J-473   | CARBON RESISTOR 4.7K 5% 1/6W |         |        |                       |
| RF 30  | GRD161J-223   | CARBON RESISTOR 2.2K 5% 1/6W |         |        |                       |
| RF 31  | GRD161J-223   | CARBON RESISTOR 2.2K 5% 1/6W |         |        |                       |
| RF 32  | GRD161J-102   | CARBON RESISTOR 1.0K 5% 1/6W |         |        |                       |
| RF 33  | GRD161J-102   | CARBON RESISTOR 1.0K 5% 1/6W |         |        |                       |
| RF 34  | GRD161J-472   | CARBON RESISTOR 4.7K 5% 1/6W |         |        |                       |
| RF 35  | GRD161J-101   | CARBON RESISTOR 1.00 5% 1/6W |         |        |                       |
| RF 37  | GRD161J-472   | CARBON RESISTOR 4.7K 5% 1/6W |         |        |                       |
| RF 38  | GRD161J-470SX | CARBON RESISTOR 4.7 5% 1/2W  |         |        |                       |
| RF 39  | GRD161J-101   | CARBON RESISTOR 1.00 5% 1/6W |         |        |                       |
| RF 40  | GRD161J-101   | CARBON RESISTOR 1.00 5% 1/6W |         |        |                       |
| RF 41  | GRD161J-223   | CARBON RESISTOR 2.2K 5% 1/6W |         |        |                       |
| RF 42  | GRD161J-223   | CARBON RESISTOR 2.2K 5% 1/6W |         |        |                       |
| RF 43  | GRD161J-334   | CARBON RESISTOR 2.2K 5% 1/6W |         |        |                       |
| RF 44  | GRD161J-563   | CARBON RESISTOR 5.6K 5% 1/6W |         |        |                       |
| RF 45  | GRD161J-563   | CARBON RESISTOR 5.6K 5% 1/6W |         |        |                       |
| RF 46  | GRD161J-121   | CARBON RESISTOR 120 5% 1/6W  |         |        |                       |
| RF 47  | GRD161J-334   | CARBON RESISTOR 2.0K 5% 1/6W |         |        |                       |
| RF 48  | GRD161J-273   | CARBON RESISTOR 220 5% 1/6W  |         |        |                       |
| RF 102 | GRD161J-153   | CARBON RESISTOR 1.0K 5% 1/6W |         |        |                       |
| RF 103 | GRD161J-473   | CARBON RESISTOR 4.7K 5% 1/6W |         |        |                       |
| RF 113 | GRD161J-183   | CARBON RESISTOR 1.8K 5% 1/6W |         |        |                       |
| RF 109 | GRD161J-227   | CARBON RESISTOR 2.7K 5% 1/6W |         |        |                       |
| RF 110 | GRD161J-823   | CARBON RESISTOR 82K 5% 1/6W  |         |        |                       |
| RF 111 | GRD161J-221   | CARBON RESISTOR 220 5% 1/6W  |         |        |                       |
| RF 112 | GRD161J-472   | CARBON RESISTOR 4.7K 5% 1/6W |         |        |                       |
| RF 113 | GRD161J-105   | CARBON RESISTOR 1.00 5% 1/6W |         |        |                       |
| RF 132 | GRD161J-102   | CARBON RESISTOR 1.00 5% 1/6W |         |        |                       |
| RF 201 | GRD161J-273   | CARBON RESISTOR 220 5% 1/6W  |         |        |                       |
| RF 202 | GRD167J-662   | CARBON RESISTOR 1.00 5% 1/6W |         |        |                       |

| ▲ REF. | PARTS NO.    | PARTS NAME                    | REMARKS       | SUFFIX | BLOCK NO. [8] [8] [8] |
|--------|--------------|-------------------------------|---------------|--------|-----------------------|
| CN708  | VMC163-R11   | CONNECTOR C CAPACITOR         | 150PF 10X 50V |        |                       |
| CS 01  | GCBBIHK-151Y | SI DIODE                      | AHB           |        |                       |
| D 709  | ISS133       | LED I-M                       | BEAT          |        |                       |
| D 710  | SLR-34VCF25  | LED I-M                       | VOCAL         |        |                       |
| D 711  | SLR-34MCF39  | LED I-M                       | INSTR.        |        |                       |
| D 712  | SLR-34MCF39  | LED I-M                       | STAND-BY      |        |                       |
| D 713  | SLR-34VRF39  | LED I-M                       |               |        |                       |
| IC703  | SBX185-52    | RM RECEIVER                   |               |        |                       |
| R 761  | GRD161J-202  | CARBON RESISTOR 2.0K 5% 1/6W  |               |        |                       |
| R 762  | GRD161J-122  | CARBON RESISTOR 1.2K 5% 1/6W  |               |        |                       |
| R 763  | GRD161J-683  | CARBON RESISTOR 68K 5% 1/6W   |               |        |                       |
| R 764  | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W  |               |        |                       |
| R 765  | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W  |               |        |                       |
| R 766  | GRD161J-104  | CARBON RESISTOR 1.00 5% 1/6W  |               |        |                       |
| R 767  | GRD161J-392  | CARBON RESISTOR 3.9K 5% 1/6W  |               |        |                       |
| R 768  | GRD161J-362  | CARBON RESISTOR 3.60K 5% 1/6W |               |        |                       |
| R 769  | GRD161J-104  | CARBON RESISTOR 4.30 5% 1/6W  |               |        |                       |
| R 770  | GRD161J-473  | CARBON RESISTOR 4.7 5% 1/6W   |               |        |                       |
| R 771  | GRD161J-202  | CARBON RESISTOR 2.0K 5% 1/6W  |               |        |                       |
| R 772  | GRD161J-562  | CARBON RESISTOR 5.6K 5% 1/6W  |               |        |                       |
| R 773  | GRD161J-152  | CARBON RESISTOR 1.0K 5% 1/6W  |               |        |                       |
| R 774  | GRD161J-222  | CARBON RESISTOR 1.8K 5% 1/6W  |               |        |                       |
| R 775  | GRD161J-392  | CARBON RESISTOR 2.7K 5% 1/6W  |               |        |                       |
| R 776  | GRD161J-122  | CARBON RESISTOR 3.9K 5% 1/6W  |               |        |                       |
| R 777  | GRD161J-152  | CARBON RESISTOR 1.2K 5% 1/6W  |               |        |                       |
| R 778  | GRD161J-222  | CARBON RESISTOR 1.5K 5% 1/6W  |               |        |                       |
| R 779  | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W  |               |        |                       |
| R 780  | GRD161J-471  | CARBON RESISTOR 4.70 5% 1/6W  |               |        |                       |
| R 781  | GRD161J-471  | TACT SW                       | CD PLAY       |        |                       |
| R 782  | GRD161J-331  | CARBON RESISTOR 330 5% 1/6W   |               |        |                       |
| R 783  | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W  |               |        |                       |
| S 701  | QSQ1A11-V042 | TACT SW                       | POWER         |        |                       |
| S 702  | QSQ1A11-V042 | TACT SW                       | EFFECT        |        |                       |
| S 703  | QSQ1A11-V042 | TACT SW                       | AHB           |        |                       |
| S 704  | QSQ1A11-V042 | TACT SW                       | LOUD          |        |                       |
| S 705  | QSQ1A11-V042 | TACT SW                       | SOUND         |        |                       |
| S 706  | QSQ1A11-V042 | TACT SW                       | CD STOP       |        |                       |
| S 707  | QSQ1A11-V042 | TACT SW                       | TUNER         |        |                       |
| S 708  | QSQ1A11-V042 | TACT SW                       | FM MODE       |        |                       |
| S 709  | QSQ1A11-V042 | TACT SW                       | TRE. +        |        |                       |
| S 710  | QSQ1A11-V042 | TACT SW                       | TRE. -        |        |                       |
| S 711  | QSQ1A11-V042 | TACT SW                       | CLOCK         |        |                       |
| S 712  | QSQ1A11-V042 | TACT SW                       | BASS +        |        |                       |
| S 713  | QSQ1A11-V042 | TACT SW                       | BASS -        |        |                       |
| S 714  | QSQ1A11-V042 | TACT SW                       | VOL. +        |        |                       |
| S 715  | QSQ1A11-V042 | TACT SW                       | VOL. -        |        |                       |
| S 716  | QSQ1A11-V042 | TACT SW                       | UP            |        |                       |
| S 717  | QSQ1A11-V042 | TACT SW                       | DOWN          |        |                       |
| S 718  | QSQ1A11-V042 | TACT SW                       | CLOCK         |        |                       |
| S 719  | QSQ1A11-V042 | TACT SW                       | TIMER         |        |                       |
|        |              |                               | ENTER         |        |                       |

• CD Amplifier P.C. Board

| ▲ REF. | PARTS NO.     | PARTS NAME                   | REMARKS | SUFFIX | BLOCK NO. [8] [8] [8] |
|--------|---------------|------------------------------|---------|--------|-----------------------|
| REF03  | GRD161J-473   | CARBON RESISTOR TAPE         |         |        |                       |
| REF06  | GRD161J-472   | CARBON RESISTOR 4.7K 5% 1/6W |         |        |                       |
| REF09  | GRD161J-224   | CARBON RESISTOR 220K 5% 1/6W |         |        |                       |
| REF11  | GRD161J-221   | CARBON RESISTOR 82K 5% 1/6W  |         |        |                       |
| REF12  | GRD161J-221   | CARBON RESISTOR 220 5% 1/6W  |         |        |                       |
| REF13  | GRD161J-472   | CARBON RESISTOR 4.7K 5% 1/6W |         |        |                       |
| REF14  | GRD161J-183   | CARBON RESISTOR 18K 5% 1/6W  |         |        |                       |
| REF15  | GRD161J-183   | CARBON RESISTOR 100K 5% 1/6W |         |        |                       |
| REF16  | GRD161J-683   | CARBON RESISTOR 68K 5% 1/6W  |         |        |                       |
| REF17  | GRD161J-222   | CARBON RESISTOR 10K 5% 1/6W  |         |        |                       |
| REF18  | GRD161J-102   | CARBON RESISTOR 100K 5% 1/6W |         |        |                       |
| REF19  | GRD161J-562   | CARBON RESISTOR 5.6K 5% 1/6W |         |        |                       |
| REF20  | GRD161J-202   | CARBON RESISTOR 200K 5% 1/6W |         |        |                       |
| REF21  | GRD161J-104   | CARBON RESISTOR 100K 5% 1/6W |         |        |                       |
| REF22  | GRD161J-153   | CARBON RESISTOR 15K 5% 1/6W  |         |        |                       |
| REF23  | GRD161J-104   | CARBON RESISTOR 100K 5% 1/6W |         |        |                       |
| REF24  | GRD161J-104   | CARBON RESISTOR 100K 5% 1/6W |         |        |                       |
| REF25  | GRD161J-392   | CARBON RESISTOR 392K 5% 1/6W |         |        |                       |
| REF26  | GRD161J-364YT | CARBON RESISTOR 364K 5% 1/6W |         |        |                       |
| REF27  | GRD161J-433YT | CARBON RESISTOR 433K 5% 1/6W |         |        |                       |
| REF28  | GRD161J-470   | CARBON RESISTOR 470K 5% 1/6W |         |        |                       |
| REF29  | GRD161J-105   | CARBON RESISTOR 105K 5% 1/6W |         |        |                       |
| REF30  | GRD161J-105   | CARBON RESISTOR 100K 5% 1/6W |         |        |                       |
| REF31  | GRD161J-105   | CARBON RESISTOR 100K 5% 1/6W |         | </     |                       |

BLOCK NO. **UX-A4 B/E/G/GI/EN**BLOCK NO. **UX-A4 B/E/G/GI/EN**BLOCK NO. **UX-A4 B/E/G/GI/EN**

| A | REF.  | PARTS NO.    | PARTS NAME      | REMARKS          | SUFFIX | PARTS NAME         | REMARKS     | SUFFIX | PARTS NAME         | REMARKS      | SUFFIX |
|---|-------|--------------|-----------------|------------------|--------|--------------------|-------------|--------|--------------------|--------------|--------|
|   | IC601 | TG9236AF     | IC              | 1 CHIP PROCESSOR |        | CARBON RESISTOR    | 47K 5% 1/6W |        | CARBON RESISTOR    | 2-2M 5% 1/6W |        |
|   | IC603 | TG9278F      | IC              | DATA CONVERTER   |        | CARBON RESISTOR    | 33K 5% 1/6W |        | CARBON RESISTOR    | 33K 5% 1/6W  |        |
|   | IC604 | XRA1521BN    | IC              | L-P-F            |        | CARBON RESISTOR    | 82 5% 1/6W  |        | CARBON RESISTOR    | 82 5% 1/6W   |        |
| K | 693   | VQ2048-009   | INDUCTOR        | FOR FTZ          |        | R 614 QRD161J-473  | CAPACITOR   |        | R 615 QRD161J-225  | CAPACITOR    |        |
| L | 691   | VQ0018-100   | INDUCTOR        | FOR FTZ          |        | R 616 QRD161J-333  | CAPACITOR   |        | R 617 QRD161J-151Y | CAPACITOR    |        |
| L | 692   | VQ0018-100   | INDUCTOR        | FOR FTZ          |        | R 618 QRD161J-820  | CAPACITOR   |        | R 619 QRD161J-681  | CAPACITOR    |        |
| L | 693   | VQ0028-100Z  | INDUCTOR        | FOR FTZ          |        | R 620 QRD161J-331  | CAPACITOR   |        | R 621 QRD161J-102  | CAPACITOR    |        |
| Q | 501   | 2SA1952(L-K) | TRANSISTOR      | 5V REGULATOR     |        | R 622 QRD161J-820  | CAPACITOR   |        | R 623 QRD161J-102  | CAPACITOR    |        |
| Q | 581   | 2SA1952(L-K) | TRANSISTOR      | 5V REGULATOR     |        | R 624 QRD161J-473  | CAPACITOR   |        | R 625 QRD161J-473  | CAPACITOR    |        |
| Q | 591   | 2SA1309(RS)  | TRANSISTOR      | 120K 5% 1/6W     |        | R 626 QRD161J-473  | CAPACITOR   |        | R 627 QRD161J-123  | CAPACITOR    |        |
| R | 501   | QRD161J-124  | CARBON RESISTOR | 10K 5% 1/6W      |        | R 628 QRD161J-123  | CAPACITOR   |        | R 629 QRD161J-123  | CAPACITOR    |        |
| R | 502   | QRD161J-103  | CARBON RESISTOR | 2.0K 5% 1/6W     |        | R 630 QRD161J-123  | CAPACITOR   |        | R 631 QRD161J-123  | CAPACITOR    |        |
| R | 504   | QRD161J-202  | CARBON RESISTOR | 2.0K 5% 1/6W     |        | R 632 QRD161J-820  | CAPACITOR   |        | R 633 QRD161J-681  | CAPACITOR    |        |
| R | 505   | QRD161J-220  | CARBON RESISTOR | 2.5% 1/6W        |        | R 634 QRD161J-331  | CAPACITOR   |        | R 635 QRD161J-331  | CAPACITOR    |        |
| R | 506   | QRD161J-101  | CARBON RESISTOR | 100 5% 1/6W      |        | R 636 QRD161J-820  | CAPACITOR   |        | R 637 QRD161J-820  | CAPACITOR    |        |
| R | 511   | QRD161J-183  | CARBON RESISTOR | 18K 5% 1/6W      |        | R 638 QRD161J-331  | CAPACITOR   |        | R 639 QRD161J-102  | CAPACITOR    |        |
| R | 512   | QRD161J-392  | CARBON RESISTOR | 3.9K 5% 1/6W     |        | R 640 QRD161J-820  | CAPACITOR   |        | R 641 QRD161J-820  | CAPACITOR    |        |
| R | 513   | QRD161J-332  | CARBON RESISTOR | 3.3K 5% 1/6W     |        | R 642 QRD161J-331  | CAPACITOR   |        | R 643 QRD161J-331  | CAPACITOR    |        |
| R | 514   | QRD161J-472  | CARBON RESISTOR | 4.7K 5% 1/6W     |        | R 644 QRD161J-820  | CAPACITOR   |        | R 645 QRD161J-820  | CAPACITOR    |        |
| R | 515   | QRD161J-103  | CARBON RESISTOR | 10K 5% 1/6W      |        | R 646 QRD161J-331  | CAPACITOR   |        | R 647 QRD161J-331  | CAPACITOR    |        |
| R | 516   | QRD161J-103  | CARBON RESISTOR | 10K 5% 1/6W      |        | R 648 QRD161J-820  | CAPACITOR   |        | R 649 QRD161J-820  | CAPACITOR    |        |
| R | 517   | QRD161J-302  | CARBON RESISTOR | 2.0K 5% 1/6W     |        | R 650 QRD161J-331  | CAPACITOR   |        | R 651 QRD161J-331  | CAPACITOR    |        |
| R | 521   | QRD161J-154  | CARBON RESISTOR | 150K 5% 1/6W     |        | R 652 QRD161J-820  | CAPACITOR   |        | R 653 QRD161J-820  | CAPACITOR    |        |
| R | 522   | QRD161J-392  | CARBON RESISTOR | 3.9K 5% 1/6W     |        | R 654 QRD161J-331  | CAPACITOR   |        | R 655 QRD161J-331  | CAPACITOR    |        |
| R | 523   | QRD161J-472  | CARBON RESISTOR | 4.7K 5% 1/6W     |        | R 656 QRD161J-820  | CAPACITOR   |        | R 657 QRD161J-820  | CAPACITOR    |        |
| R | 524   | QRD161J-332  | CARBON RESISTOR | 3.3K 5% 1/6W     |        | R 658 QRD161J-331  | CAPACITOR   |        | R 659 QRD161J-331  | CAPACITOR    |        |
| R | 525   | QRD161J-472  | CARBON RESISTOR | 4.7K 5% 1/6W     |        | R 660 QRD161J-820  | CAPACITOR   |        | R 661 QRD161J-820  | CAPACITOR    |        |
| R | 529   | QRD161J-562  | CARBON RESISTOR | 5.6K 5% 1/6W     |        | R 662 QRD161J-331  | CAPACITOR   |        | R 663 QRD161J-331  | CAPACITOR    |        |
| R | 531   | QRD161J-473  | CARBON RESISTOR | 4.7K 5% 1/6W     |        | R 664 QRD161J-820  | CAPACITOR   |        | R 665 QRD161J-820  | CAPACITOR    |        |
| R | 532   | QRD161J-106  | CARBON RESISTOR | 100K 5% 1/6W     |        | R 666 QRD161J-331  | CAPACITOR   |        | R 667 QRD161J-331  | CAPACITOR    |        |
| R | 533   | QRD161J-153  | CARBON RESISTOR | 15K 5% 1/6W      |        | R 668 QRD161J-820  | CAPACITOR   |        | R 669 QRD161J-820  | CAPACITOR    |        |
| R | 541   | QRD161J-123  | CARBON RESISTOR | 12K 5% 1/6W      |        | R 670 QRD161J-331  | CAPACITOR   |        | R 671 QRD161J-331  | CAPACITOR    |        |
| R | 542   | QRD161J-332  | CARBON RESISTOR | 3.3K 5% 1/6W     |        | R 672 QRD161J-820  | CAPACITOR   |        | R 673 QRD161J-820  | CAPACITOR    |        |
| R | 544   | QRD161J-223  | CARBON RESISTOR | 22K 5% 1/6W      |        | R 674 QRD161J-331  | CAPACITOR   |        | R 675 QRD161J-331  | CAPACITOR    |        |
| R | 545   | QRD161J-103  | CARBON RESISTOR | 1.0K 5% 1/6W     |        | R 676 QRD161J-820  | CAPACITOR   |        | R 677 QRD161J-820  | CAPACITOR    |        |
| R | 548   | QRD161J-153  | CARBON RESISTOR | 1.5K 5% 1/6W     |        | R 678 QRD161J-331  | CAPACITOR   |        | R 679 QRD161J-331  | CAPACITOR    |        |
| R | 549   | QRD161J-821  | CARBON RESISTOR | 820 5% 1/6W      |        | R 680 QRD161J-820  | CAPACITOR   |        | R 681 VR3525-154AZ | V RESISTOR   |        |
| R | 550   | QRD161J-104  | CARBON RESISTOR | 100K 5% 1/6W     |        | R 682 QRD161J-331  | CAPACITOR   |        | R 683 VR3525-154AZ | V RESISTOR   |        |
| R | 551   | QRD161J-223  | CARBON RESISTOR | 22K 5% 1/6W      |        | R 684 QRD161J-820  | CAPACITOR   |        | R 685 VR3525-154AZ | V RESISTOR   |        |
| R | 552   | QRD161J-562  | CARBON RESISTOR | 5.6K 5% 1/6W     |        | R 686 QRD161J-331  | CAPACITOR   |        | R 687 VR3525-154AZ | V RESISTOR   |        |
| R | 553   | QRD161J-123  | CARBON RESISTOR | 1.5K 5% 1/6W     |        | R 688 QRD161J-820  | CAPACITOR   |        | R 689 VR3525-154AZ | V RESISTOR   |        |
| R | 554   | QRD161J-332  | CARBON RESISTOR | 3.3K 5% 1/6W     |        | R 690 QRD161J-331  | CAPACITOR   |        | R 691 VR3525-154AZ | V RESISTOR   |        |
| R | 555   | QRD161J-103  | CARBON RESISTOR | 1.0K 5% 1/6W     |        | R 692 VR3525-154AZ | V RESISTOR  |        | R 693 VR3525-154AZ | V RESISTOR   |        |
| R | 556   | QRD161J-125  | CARBON RESISTOR | 1.2M 5% 1/6W     |        | R 694 VR3525-154AZ | V RESISTOR  |        | R 695 VR3525-154AZ | V RESISTOR   |        |
| R | 561   | QRD161J-562  | CARBON RESISTOR | 5.6K 5% 1/6W     |        | R 696 VR3525-154AZ | V RESISTOR  |        | R 697 VR3525-154AZ | V RESISTOR   |        |
| R | 562   | QRD161J-102  | CARBON RESISTOR | 1.0K 5% 1/6W     |        | R 698 VR3525-154AZ | V RESISTOR  |        | R 699 VR3525-154AZ | V RESISTOR   |        |
| R | 563   | QRD161J-152  | CARBON RESISTOR | 1.5K 5% 1/6W     |        | R 700 VR3525-154AZ | V RESISTOR  |        | R 701 VR3525-154AZ | V RESISTOR   |        |
| R | 564   | QRD161J-332  | CARBON RESISTOR | 3.3K 5% 1/6W     |        | R 702 VR3525-154AZ | V RESISTOR  |        | R 703 VR3525-154AZ | V RESISTOR   |        |
| R | 565   | QRD161J-683  | CARBON RESISTOR | 68K 5% 1/6W      |        | R 704 VR3525-154AZ | V RESISTOR  |        | R 705 VR3525-154AZ | V RESISTOR   |        |
| R | 566   | QRD161J-273  | CARBON RESISTOR | 27K 5% 1/6W      |        | R 706 VR3525-154AZ | V RESISTOR  |        | R 707 VR3525-154AZ | V RESISTOR   |        |
| R | 583   | QRD161J-101  | CARBON RESISTOR | 100 5% 1/6W      |        | R 708 VR3525-154AZ | V RESISTOR  |        | R 709 VR3525-154AZ | V RESISTOR   |        |
| R | 591   | QRD161J-473  | CARBON RESISTOR | 4.7K 5% 1/6W     |        | R 710 VR3525-154AZ | V RESISTOR  |        | R 711 VR3525-154AZ | V RESISTOR   |        |
| R | 611   | QRD161J-102  | CARBON RESISTOR | 1.0K 5% 1/6W     |        | R 712 VR3525-154AZ | V RESISTOR  |        | R 713 VR3525-154AZ | V RESISTOR   |        |
| R | 612   | QRD161J-103  | CARBON RESISTOR | 1.0K 5% 1/6W     |        | R 714 VR3525-154AZ | V RESISTOR  |        | R 715 VR3525-154AZ | V RESISTOR   |        |
| R | 613   | QRD161J-224  | CARBON RESISTOR | 220K 5% 1/6W     |        | R 716 VR3525-154AZ | V RESISTOR  |        | R 717 VR3525-154AZ | V RESISTOR   |        |

## ● Tuner P.C. Board

BLOCK NO. **UX-A4 B/E/G/GI/EN**

| A | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX | PARTS NAME | REMARKS | SUFFIX | PARTS NAME | REMARKS | SUFFIX |
|---|------|-----------|------------|---------|--------|------------|---------|--------|------------|---------|--------|
| C | 0    |           |            |         |        |            |         |        |            |         |        |

## 10. Wiring Connection

### ■ Tape Deck/Amplifier Section

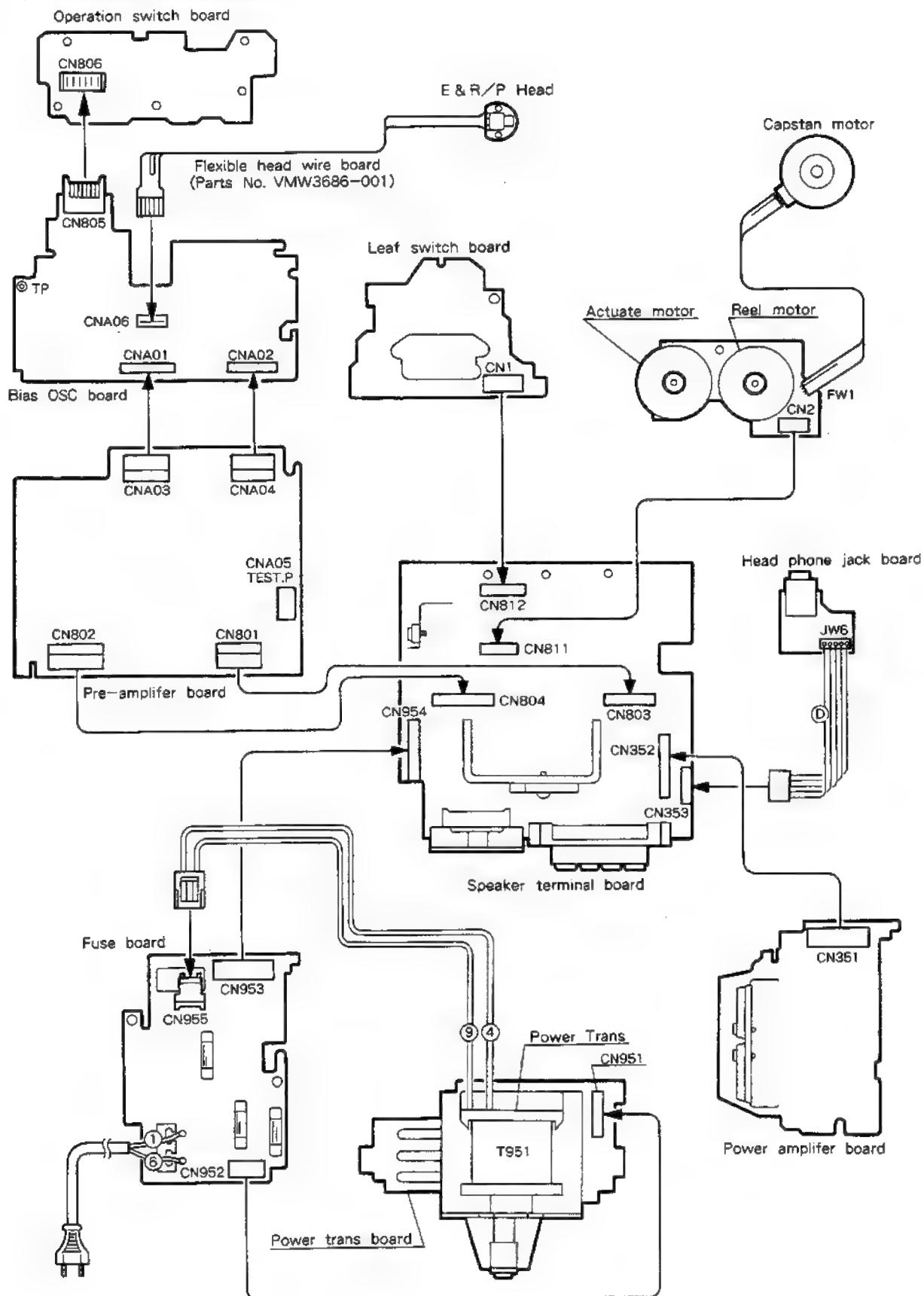


Fig. 10-1

## 9. Block Diagram

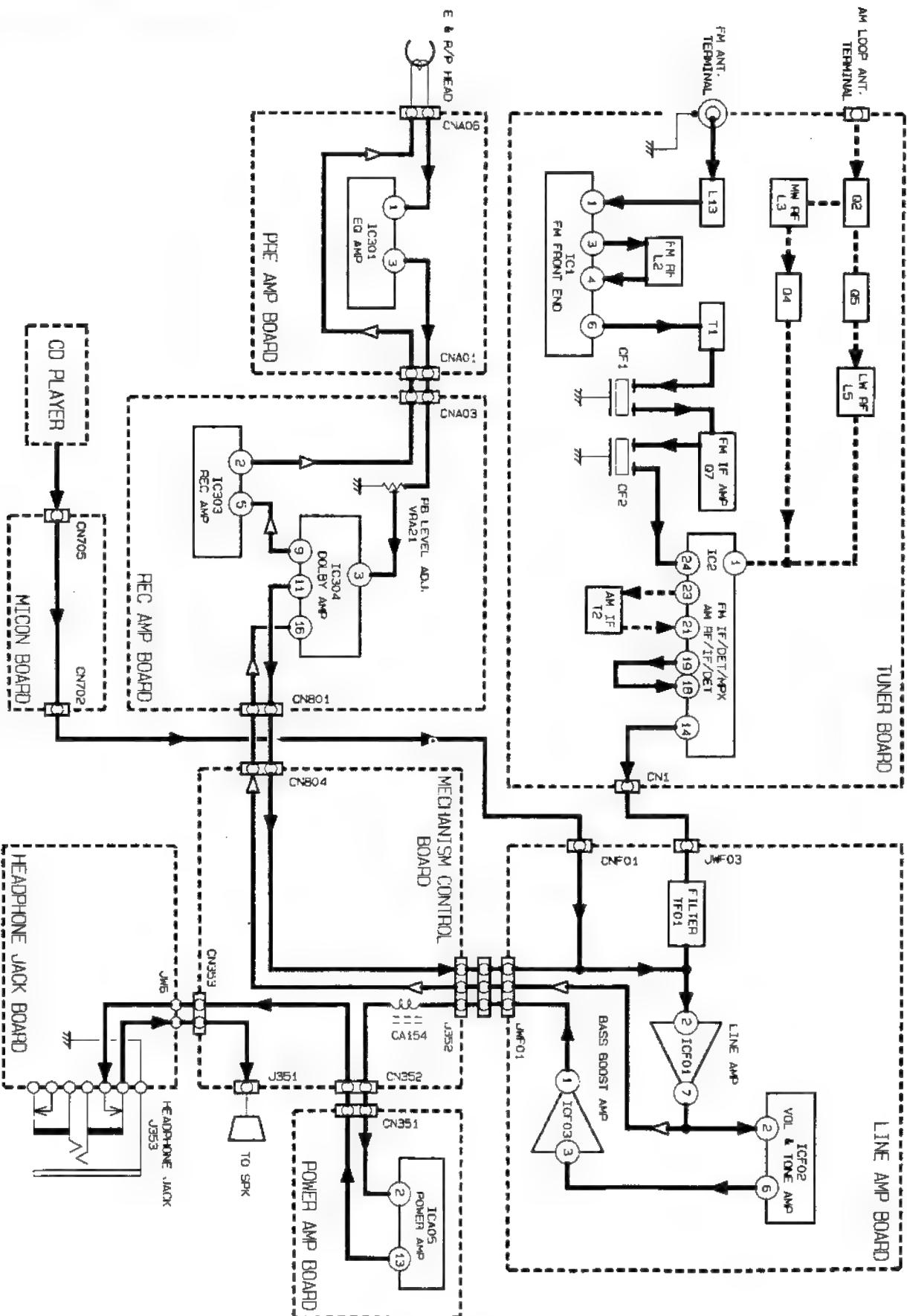
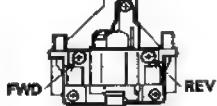
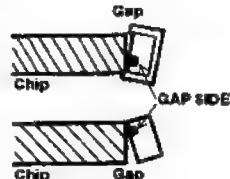
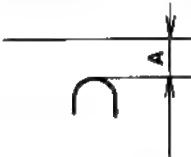


Fig. 9-1

## ■ Cassette mechanism specification

| Item                     | Specification  | condition  | Posture  |
|--------------------------|--|--|----------|
| 1. Winding torque (g-cm) | PLAY FF/REW :27~60g-cm<br>(Both , FWD, REV) :90~200g-cm  | Cassette tape<br>TW2111A(for FWD)<br>TW2231A(for FF/REV)<br>TW2121A(for REV) | Sideways |
| 2. Speed devaluation     | FWD at tape end VVT 712 :4.8cm/sec ..... Deviation of speed :2940~3060Hz between FWD/REV to be within 4.5Hz. | VVT 712<br>Wow/Flutter meter   | Sideways |
| 3. WOW/FL (%)            | At begining of tape and end.VVT 712 :JIS wrms below 0.18%<br>(Both FWD, REV)                                 | VVT 712<br>Wow/Flutter meter   | Sideways |
| 4. Back tension (g-cm)   | In in play :1.0~5.0g-cm<br>(Both FWD, REV)   | Cassette tape<br>TW2111 (for FWD)<br>TW2422 (for REV)                        | Sideways |
| 5. Winding torque (g-cm) | In play :Above 90g-cm<br>(Both FWD, REV)   | Cassette tape<br>TW2412 (for FWD)<br>TW2422 (for REV)                        | Sideways |
| 6. E, head tilt          | Both FWD, REV :90° ± 45'   | M300 gauge 45' chip  | Sideways |

## ■ Cassette mechanism part

| Item                    | Conditions   | Adjustment & Confirmation Methods  | Stand. values  | Adjust   |
|-------------------------|--|--|--|--|
| 1. Thrust gap flywheel  |  | Check with finger feeling.   | 0.2 – 1.0mm<br>(BOTH FWD, REV)   |  |
| 2. Mecha operation      | Mecha control  | Following operation to be normal (Both FWD, REV) and, in that time, noise, vibration should not occur.<br>(Running noise during PLAY, FF, REW, is accepted if noise can't be heard with loading cassette type.)  | PLAY, DIR, FF, REW, SCAN (FF, REW), PAUSE, STOP  |  |
| 3. Signal of auto stop  | Mecha control  | Lead light to be on and off normally play (SIG)<br>(Caution: Without tape fwd side only, led to be on and off.)  |  |  |
| 4. Leaf switch position |  | 1. All switch leds, should light when putting cassette gauge for confirming leaf SW on.<br>2. All SW leds should not light when putting cassette gauge for confirming leaf SW off.   |  |  |
| 5-1. Azimuth            | M300 gauge<br>t=3.4mm chip<br>VVT 704(12.5KHz)                               | Adjust azimuth to the peak point by play back 12.5KHz.<br>At that time, difference Lch – Rch below 4dB and difference Lch – Rch FWD/REV below 3dB.   |  |  |
| 5-2. Guide height       | Head amp   | t=3.4mm chip can be inserted into guide of R/P head after adjusting azimuth.(t=3.4mm chip can after be inserted into dummy guide, both FWD, REV.)  |  |  |
| 5-3. Tape running       | Upper side curling of FWD, lower side curling of REV.                        | Curl running should not occur at guide of R/P head with loading C-90 at middle.(Both FWD, REV)   | FWD<br>REW<br>  | MECHA CONTROL  |
|                         | Lower side curling of FWD, upper side curling of REV                         | Curling at opposite of gap is corrected by turning azimuth screw within $\frac{1}{2}$ turns can be acceptable.(After checking above item azimuth screw to be returned to previous position.)<br><br>Curling at gap side is corrected by turning azimuth screw within $\frac{1}{4}$ turns can be acceptable<br>(After checking above item, azimuth screw to be returned to be returned to previous position.) | <br> | C-90   |
| 5-4. Stretching         |  | Stretching not to occur at the beginning of C-90.<br>(Without pad)   | Sampling check   | C-90   |
| 5-5. Head position      | IN PLAY<br>A 3.10–3.65mm<br>(3.25~3.80)<br>IN MS<br>A 4.4–5.1mm<br>(1.8~2.5) |    |  | Head position jig.<br>Figures in ( ) is against standard cassette guide              |
| 6. Separation           |  | Reversing L and R cross talk not to occur by play back 1KHz.   |  | Mecha control OSC scope<br>VVT 752   |

## ■ Tuner Section

| Item   | Conditions   | Adjustment & Confirmation Methods   | Stand. values                                     | Adjust                     |
|--|--|---|---|----------------------------|
| LW RF tracking check and adjust<br>(All version)             | Band select : LW<br>Tuner Input : Standard loop antenna<br>Measuring point : TP9   | <ul style="list-style-type: none"> <li>Frequency of SSG : 144kHz</li> <li>Number preset memory : Max. capacity(M6)</li> </ul> <p>1. Adjust L6 to obtain <math>1.1V \pm 0.02V</math> at TP9.</p> <ul style="list-style-type: none"> <li>Frequency range : 144 kHz</li> <li>Receive 144 kHz(M6)</li> </ul> <p>2. Receive 144kHz signal from an AM oscillator by the set while adjusting L5 to maximize headphone output.</p> <ul style="list-style-type: none"> <li>Frequency range : 288kHz</li> <li>Receive 288 kHz(M7)</li> </ul> <p>3. Receive 288 KHz signal from an AM oscillator by the set while adjusting TC3 to maximize headphone output.</p> <p>4. Repeat the above steps 2. and 3. to obtain maximum outputs respectively.</p> | $1.1V \pm 0.02V$                                  | L6<br>L5<br>TC3<br>L5, TC3 |
| MW or AM RF tracking check and adjust<br>(All version))      | Band select : AM or MW<br>Tuner Input : Standard loop antenna  | <p>1. Receive 603 kHz signal ( preset No.3) from the AM oscillator by the set while adjusting L3 to maximize headphone output.</p> <p>2. Receive 1404 kHz signal from an AM oscillator by the set while adjusting TC2 to maximize headphone output.</p> <p>3. Repeat the above steps 1. and 2. to obtain maximum outputs respectively.</p>  | Output level : maximum                            | L3<br>TC2<br>L3, TC2       |
| FM RF tracking check and adjust<br>(UX – A4 B)               | <ul style="list-style-type: none"> <li>Band select : FM</li> <li>Tuner input : Dummy antenna for unbalanceed <math>75 \Omega</math></li> </ul> | <ul style="list-style-type: none"> <li>Receive 88 MHz signal ( preset No.3) from an FM oscillator by the set while adjusting L2 to maximize headphone output .</li> </ul>   | Output level : maximum                            | L2                         |
| FM RF tracking check and adjust<br>(UX – A4 E / G / GI / EN) | <ul style="list-style-type: none"> <li>Positive side to TP1</li> <li>Negative side to TP2</li> </ul>   | <p>1. Adjust L1 to obtain <math>1.3 V \pm 0.02 V</math> at TP9.<br/>G/GI version use : <math>1.0V \pm 0.02V</math>.</p> <p>2. Receive 88MHz signal from an FM oscillator by the set while adjusting L2, L13 to maximize headphone output.</p> <p>3. Next, receive 106MHz signal while adjusting TC1, TC4 to maximize headphone output.</p> <p>4. Repeat the above steps 2. and 3. to obtain maximum outputs respectively.</p>   | $1.3 \pm 0.02V$<br>G/GI version : $1.0 \pm 0.02V$ | L2, L13<br>TC1, TC4        |

### ■ Tuner Section

| Item                                     | Conditions  | Adjustment & Confirmation Methods   | Stand. values | Adjust |
|--|---|---|---------------|--------|
| AM IF tadjust and check<br>(All version) | <ul style="list-style-type: none"> <li>• Band select : MW or AM</li> <li>• Receiving frequency : Near the upper band edge where no signal comes in.</li> <li>• Volume control : Minimum gain position.</li> <li>• Tuner Input : Positive side to TP3</li> <li>• Tuner output : Positive side to TP6<br/>: Negative side to TP7</li> </ul> | <p>• Adjust above mentioned aligning position, so that maximum and symmetrical wave from (See Fig.a) can be obtained, in this case, the wave peak should appear on the center marker(450kHz) in the scope of sweeper.</p> <p>• On the AM IF circuit, IF filter is solid units, so there is unnecessary for IF tuning.</p> <p>* In case if tuning may be needed (Repair etc.), do the above mentioned alignment.</p>   |               | T2     |
| FM IF adjust and check<br>(All version)  | <ul style="list-style-type: none"> <li>• Band select : FM</li> <li>• Receiving frequency</li> <li>• Volume control : Minimum gain position.</li> <li>• Tuner input : Positive side to TP5</li> <li>• Tuner output : Positive side to TP6<br/>: Negative side to TP7</li> </ul>  | <p>① Remove CF3 so that " S " curve may be changed to IF wave from as shown Fig. a.<br/>Adjust T1 farther more to obtain maximum and balanced wave from .</p> <p>② Put back CF3 so that " S " curve on the scope may obtain maximum and balanced wave from as shown Fig.b.</p> <p>* On the FM circuit, IF filter and discriminator is solid units so there is unnecessary for IF tuning. In case IF tuning may be needed (Repair etc.), do that above mentioned alignment.</p> <p>* Note for G/GI , E/EN version</p> <p>① As to " G/GI " , " E/EN " version, FM IF alignment is necessary.</p> <p>② Receive 98MHz, 22.5 kHz dev. Input level, about - 3dB limiting sensitivity level.</p> <p>③ Adjust T1, no farther improvement.</p> |               | T1     |

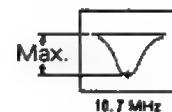


Fig. a

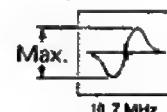


Fig. b

| Item  | Conditions  | Adjustment & Confirmation Methods  | Stand. values                                      | Adjust                     |
|---|---|--|--|----------------------------|
| Recording /playback frequency response check and adjustment | Test tape : UR(Normal tape)<br>Standard frequency : 1kHz (REF. - 20dB)<br>Test point IN : AUX IN<br>Test point OUT : DOLBY TP | While inputting REF. - 20dB from AUX IN, perform recording and replay with the normal tape TS8 . At this time, confirm the output with VRA13(Lch) and VRA23(Rch) so that the deviation between 1.25 kHz and 12.5 kHz at the DOLBY TP becomes $0 \pm 1$ dB.   | 1.25/ 12.5 kHz<br>: $0 \pm 1$ dB                   | Lch : VRA13<br>Rch : VRA23 |
| Recording /playback sensitivity adjustment                  | Test tape : UR(Normal tape)<br>Test point In : AUX IN<br>Test point out : DOLBY TP  | ① While inputting REF.1 kHz to AUX IN perform recording and replay with the normal tape TS8.<br>② Adjust Lch and Rch respectively with VRA12 and VRA22 so that the output at the DOLBY test point at this time becomes $0 \pm 1$ dB.<br>③ Next, perform recording and replay with the chromium tape TS10 and metal tape TS11 according to the same procedures in the Step ①.<br>④ Confirm that the DOLBY TP output at this time is $0 \pm 1$ dB. | Reference level : Monitor levelWithin $0 \pm 1$ dB | Lch : VRA12<br>Rch : VRA22 |
| Recording / playback distortion check                       | Test tape : UR(Normal tape)<br>Test point In : AUX<br>Test point : DOLBY TP   | Supply 1 kHz, - 8 dBs signal to the AUX and record it.<br>Play it back while checking that distortion is less than 5 %.  | Less than 5 %                                      | -                          |
| Bias frequency adjustment                                   | • Tape mode<br>• Test point : DOLBY TP  | Switch tape select to Normal position. In case that the bias frequency is out of specification, L801 should be readjusted to standard and set to Tuner, Recording position for alignment.<br>① Adjust bias frequency at FM mode.<br>② Confirm bias frequency at AMmode.  | DOLBY TP :100<br>$\pm 0.2$ kHz                     | L801                       |

## ■ Mechanism & Amplifier Sections

| Item                             | Conditions   | Adjustment & Confirmation Methods  | Stand. values  | Adjust                     |
|----------------------------------|--|--|--|----------------------------|
| Head azimuth adjustment          | Test tape :VTT704(12.5kHz)<br>Test point :Headphones         | <p>① Playback the test tape VTT704(12.5kHz) in the forward direction, adjust the head azimuth screw (A) to maximize the headphones output while minimum the phase difference between channels</p> <p>② Playback the test tape in the reverse direction, adjust the head azimuth screw (B) for the same purpose as the forward playback.</p> <p>③ Deviation foward and reverse : within 3 dB<br/> <b>* Whenever the head is changed the azimuth should be readjusted.</b></p> | Output : within – 2dB from the peak<br>Phase difference :minimum                             | Head azimuth screw         |
| Tape speed adjustment            | Test tape : VTT712(3kHz)<br>Test point : Headphone           | Playback the test tape VTT712 (3kHz) at the tape end position. Should the following tape speed is out of specification, it is necessary to adjust the VR801 so that standard value obtain within 3000~3020 Hz.   | Normal speed : within 3000~3020Hz  | VR801                      |
| Wow and flutter check            | Test tape :VTT712(3kHz)<br>Test point :Headphone             | Playback the test tape VTT712(3kHz) to tape start, midle and end position. Wow and flutter should be within the following allowance at the three positions.  | Playback FWD / REV should be less than 0.2% (JIS RMS)  | —                          |
| Playback output level adjustment | Test tape :VTT724(1kHz)<br>Test point : DOLBY TP             | <p>1. Playback the test tape VTT724(1kHz) and switch the tape select to NORMAL position.</p> <p>2. Adjust VRA11(Lch) and VRA21(Rch) so that standard value obtain less than <math>-11\text{dB} \pm 1\text{dB}</math>.</p> <p>3. L, R difference level to be less than <math>\pm 2\text{dB}</math>.</p>   | Less than $-11\text{dB} \pm 1\text{dB}$<br><br>Less than $\pm 2\text{dB}$                    | Lch : VRA11<br>Rch : VRA21 |
| Frequency response check         | Test tape :VTT - 7063(1kHz)<br>Test point : DOLBY TP( CNA05) | <p>① Switch tape select to Normal position and playback the test tape VTT - 7063(1kHz).</p> <p>② Confirm the output level at the DOLBY TP becomes as follows with reference to 1kHz.</p> <p>③ Compare the level between 1 kHz and 63Hz , 1 kHz and 12.5kHz.</p> <p>④ Then defference level should be within <math>0\text{dB} \pm 4\text{dB}</math>, <math>0\text{dB} \pm 4\text{dB}</math>.</p>  | 63 Hz/ 1 kHz level : within $0 \pm 4\text{dB}$<br>1kHz / 12.5kHz : within $0 \pm 4\text{dB}$ | —                          |

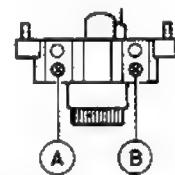


Fig. 2

### ■ Arrangement of adjusting positions

#### ● Tape deck/amplifier section

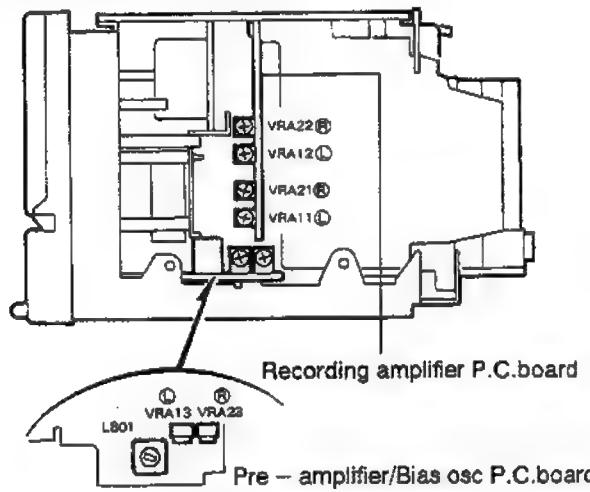


Fig. 8-1

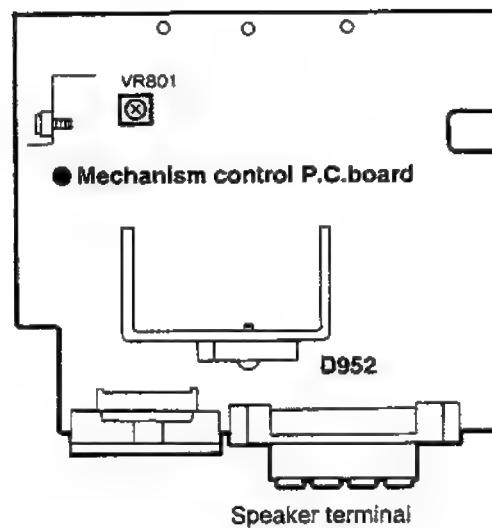


Fig. 8-2

#### ● CD player assembly section

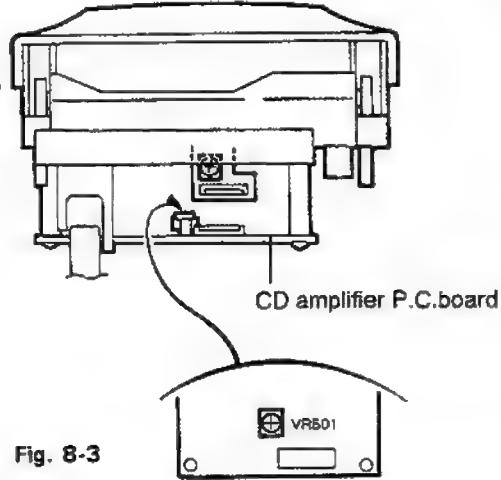


Fig. 8-3

#### ● Tuner P.C.board :UX - A4 B

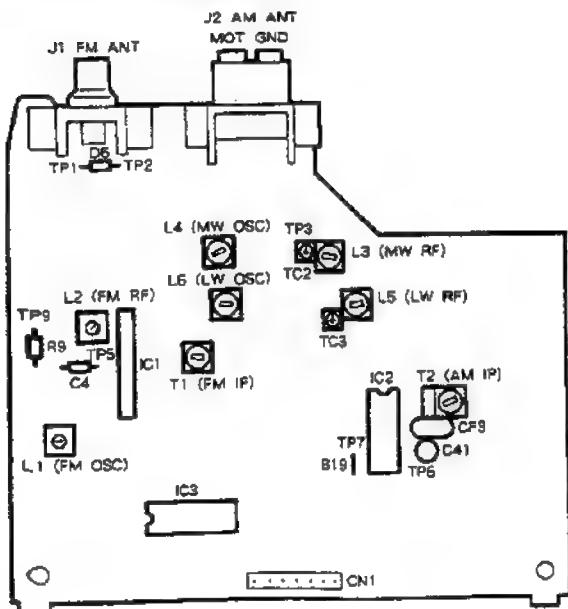


Fig. 8-4

#### ● Tuner P.C.board :UX - A4 E/G/GI/EN

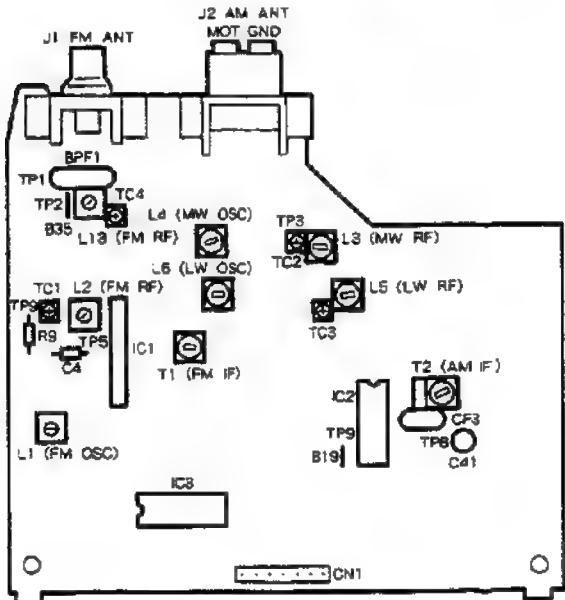


Fig. 8-5

## 8. Main Adjustments

### ■ Test Instruments required for adjustment

1. Low frequency oscillator  
(oscillation frequency: 50Hz to 20kHz)  
(Output : 0 dBs with 60 Ω terminator)
2. Attenuator( Impedance : 600 Ω )
3. Test Tapes
- VTT712 ..... For tape speed,wow and flutter measurement
- VTT724 ..... For 3kHz reference level check
- VTT736 ..... For playback frequency response check
- VTT752 ..... For playback channel check(1kHz)
4. Electronic voltmeter, Distortion meter
5. Resistor...600 Ω for attenuator matching
6. Torque gauge..... Cassette type for CTG - N mechanism adjustment
7. Wow and Flutter meter , Frequency counter
8. Extension cord for check ..... EXTUXT1 - KIT

### ■ Measuring conditions (Amplifier section)

Supply voltage AC 230V(50/60Hz);UX - A4 E/G/GI/EN  
AC240V(50/60Hz);UX - A4B

Reference output : Speaker ..... 0 dBs (0.775V) / 4 Ω  
: Headphone ..... 0 dBs (0.775V) / 32 Ω

### ● Standard position of functionswitches

Function switch ..... TAPE  
Tape select switch ..... NORMAL  
Timer , DOLBY NR , Active hyper bassswitch ..... OFF  
Beat cut switch ..... Position 1 or Normal

### ● Standard position of volume control

BASS, TREBLE ..... CENTER  
Main volume adjust ..... 0 dBs output  
Test tape for REC/PB ..... Normal tape : UR8  
Standard test frequency ..... 1 kHz  
; unless otherwise specified.  
Reference input level ..... AUX IN : - 8dBs  
Input for REC/PB, Check &measuring ..... AUX IN  
: - 28.0 dBs  
Output for measuring unless otherwise specified

: At speaker terminal

### ● Test remarks

1. Negative side of the input and output on the testing set, that ought to be separately to each other, and then bear in mind there connection the testing set with 2 channels Electronic voltmeter, the negative side never connect commonly.
2. Replaced output load with a dummy and that lead wire to be used as big as possible.
3. Attach top cover when measuring and connect filter shown below Fig. 1 to V. meter.

#### ● Load at measured terminal

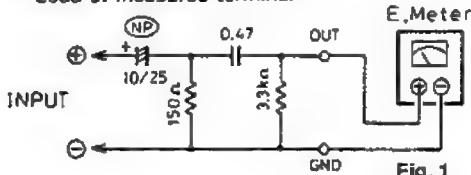


Fig. 1

### ■ Measuring condition (Radio section)

Refer to rating source ..... Tuner+B : DC 5.8V  
Reference output ..... Speaker : 50mW(0.45 V) / 4 Ω  
Headphon : (0.06V) / 32 Ω  
AM frequency ..... 400Hz modulation 30%  
FM frequency ..... 400Hz modulation  
frequency deviation 22.5kHz

### ● Standard position of switches and controllers

Function ..... RADIO  
Mode ..... STEREO  
Super bass ..... OFF

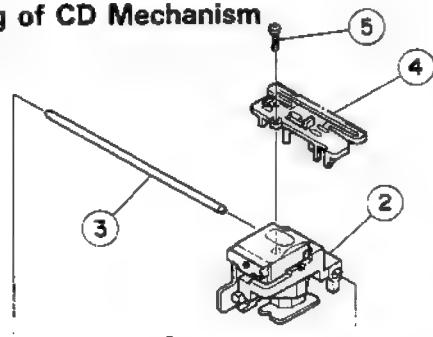
### ● Careful points for adjustment

1. Connect 30 pF capacitor and 33 k Ω resistor to the output side of the IF sweeper in series while 0.082 μ F capacitor and 100k Ω resistor to the input side in series.
2. Set output level of the IF sweeper as minimum as adjustable.
3. RF Alignment order  
Procedure of the steps of tracking should be kept.

1 2 3 4 5

### ■ Analytic drawing of CD Mechanism

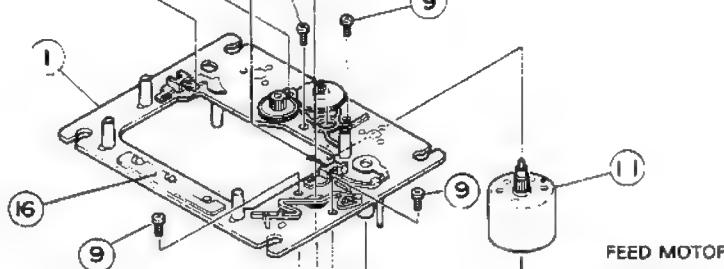
A



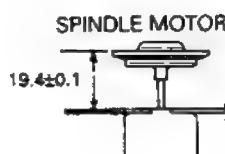
B



C



D



E

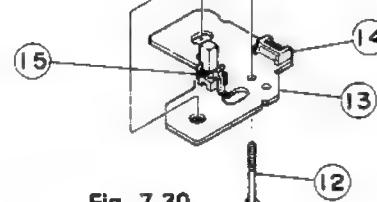


Fig. 7-30

Apply grease to the points 'a, b, c' as follows:

a : Grease No. G-31KB

Apply a drop approx. ø3 mm onto the hole.

b : Grease No. G-31KB

Apply thin before assembling the pickup unit.

c : Grease No. G-31KB

    Apply a drop approx. ø4 mm after installation  
    of the pickup unit.\* After installation of (7), apply bond lock "Lock  
Tight #460", or equivalent.

### ■ CD Mechanism Parts List

BLOCK NO. M8MM

| A | REF. | PARTS NO.     | PARTS NAME      | REMARKS | QTY | SUFFIX | C.R |
|---|------|---------------|-----------------|---------|-----|--------|-----|
|   | 1    | EPB-002A      | MECHA BASE ASSY |         | 1   |        |     |
|   | 2    | OPTIMA-6S     | OPTICAL PICK-UP |         | 1   |        |     |
|   | 3    | E406777-001   | GUIDE SHAFT     |         | 1   |        |     |
|   | 4    | E307746-001   | CD RACK         |         | 1   |        |     |
|   | 5    | SDSF2006Z     | SCREW           |         | 1   |        |     |
|   | 6    | EPB-003A      | MECHA GEAR      |         | 1   |        |     |
|   | 7    | E75807-301    | TURN TABLE      |         | 1   |        |     |
|   | 8    | SDSP2003N     | SCREW           |         | 1   |        |     |
|   | 10   | E406783-001   | DC MOTOR        | SPINDLE | 1   |        |     |
|   | 11   | E406784-001SA | DC MOTOR ASSY   | FEED    | 1   |        |     |
|   | 12   | E75832-001    | SPECIAL SCREW   |         | 1   |        |     |
|   | 13   | EMW10190-001  | PRINTED BOARD   |         | 1   |        |     |
|   | 14   | EMV5109-006B  | CONN.TERMINAL   |         | 1   |        |     |
|   | 15   | ESB1100-005   | LEAF SWITCH     |         | 1   |        |     |
|   | 16   | E407212-001   | DAMPER          |         | 1   |        |     |

■ Reel and Actuator motor assembly (Fig. 7-27, 7-28)

1. Remove four screws (23, 26) retaining the reel motor (21) and the actuator motor assembly (24). (Fig. 7-27)
2. When removing the reel motor, unsolder the two points (D) on the back side. (Fig. 7-28)
3. When removing the actuator motor, unsolder the two points (E) in the same manner. (Fig. 7-28)

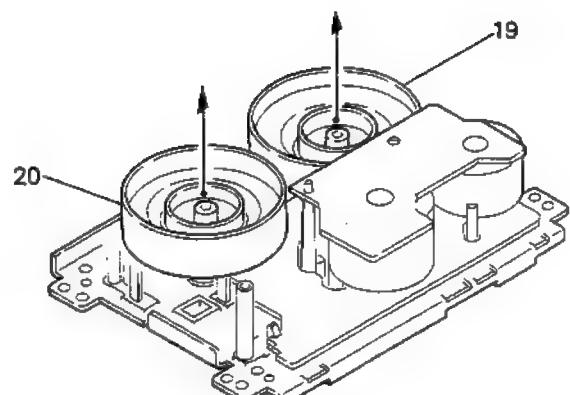


Fig. 7-25

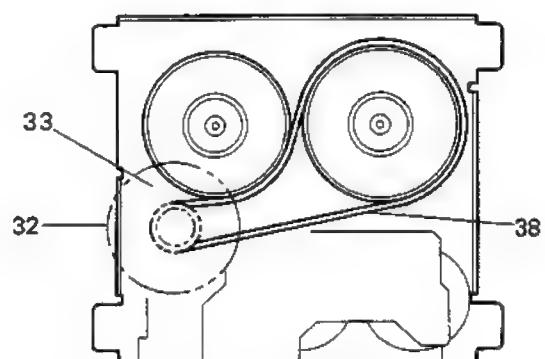


Fig. 7-26

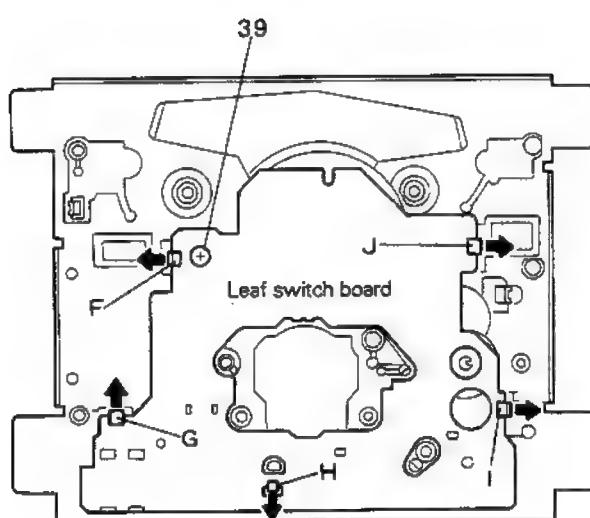


Fig. 7-29

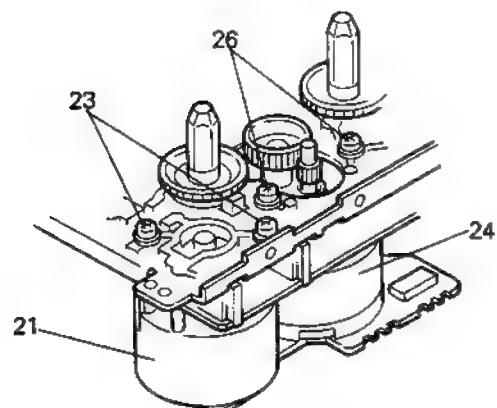


Fig. 7-27

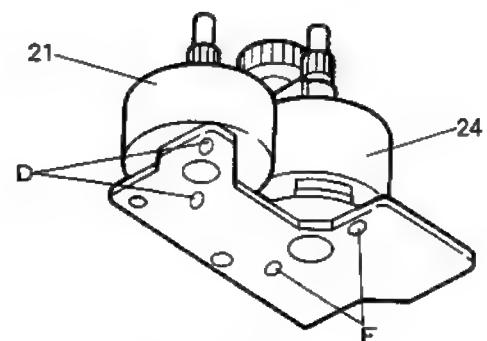


Fig. 7-28

**■ Head mount assembly (A) (Fig. 7-20, 7-21)**

Remove three screws (13) retaining the head mount assembly (A) from the chassis base assembly.

**Note:** After replacing the head mount assembly, make sure to adjust the azimuth screw (46).

**■ Pinch roller assembly (Fig. 7-22)**

1. Expand the pawl (A) retaining the pinch roller assembly (27) on the right side in the direction of the arrow while pulling out the pinch roller assembly upwards.
2. In the same manner as above, expand the pawl retaining the pinch roller assembly (28) on the left side to remove the left pinch roller assembly. (Fig. 7-20, too)

**■ Capstan motor and Flywheel (Fig. 7-24 through 7-26)**

1. Place the cassette mechanism upside down to expose the bottom. (Fig. 7-24)
2. Remove three screws (37) retaining the FR bracket assembly from the chassis base. (Fig. 7-24)
3. Expand two pawls (B, C) retaining the FR bracket assembly in the direction of the arrow to remove them. (Fig. 7-24)
4. Remove the FR bracket assembly.
5. Remove two screws (34) retaining the capstan motor (32) from the FR bracket assembly. (Fig. 7-23)
6. Disengage the belt (38) and pull out the flywheels (19, 20). (Fig. 7-25, 7-26)

**Note:** When disengaging the belt, carefully do it not to stain it with oil, etc.

For reengaging the belt, refer to Fig. 7-26.

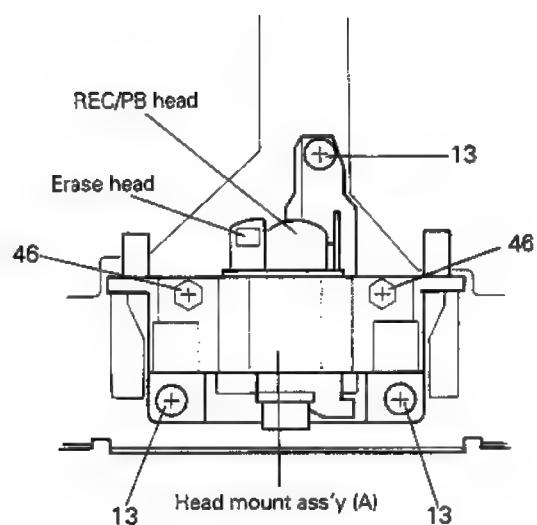


Fig. 7-21

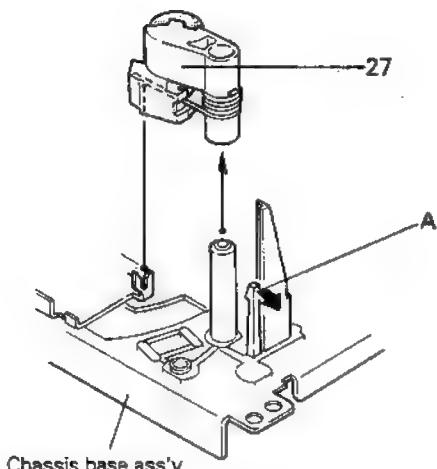


Fig. 7-22

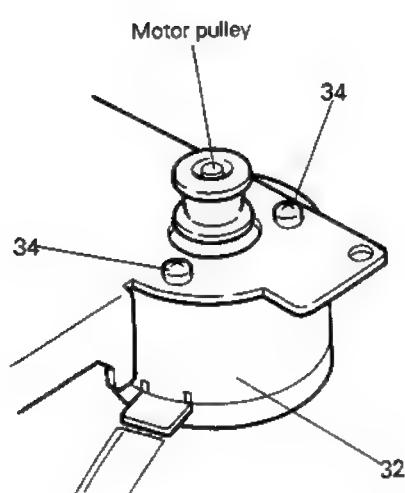


Fig. 7-24

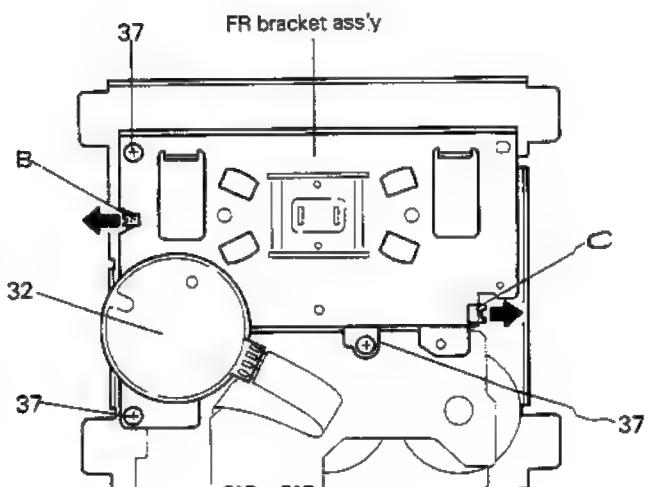


Fig. 7-23

## ■ Cassette Mechanism Parts List

BLOCK NO. M7MM1111

| REF. | PARTS NO.  | PARTS NAME   | REMARKS                                | QTY                   | SUFFIX | CLR |
|------|--|--|--|-----------------------|--------|-----|
| A    | VKS3629-008<br>B MSI5B2LW-SA1<br>C MSN5D257A-SA1<br>1 VKS1126-008<br>2 VKS5428-008 | HEAD BLOCK<br>CAPSTAN MOTOR<br>DC MOTOR<br>CHASSIS B ASS'Y<br>T-UP REEL ASSY | REF.13,45,47<br>REF.32,33<br>REF.24,25 | 1<br>1<br>1<br>1<br>1 |        |     |
| 3    | VKW5043-001  | B.T. SPRING  |  | 1                     |        |     |
| 4    | VKS3617-002  | REEL   |  | 1                     |        |     |
| 5    | VKW5043-001  | B.T. SPRING  |  | 1                     |        |     |
| 6    | VKS3627-001  | PINCH LEVER  |  | 1                     |        |     |
| 7    | VKS2224-001  | CONTROL CAM  |  | 1                     |        |     |
| 8    | VKS5454-001  | ACT GEAR(2)  |  | 2                     |        |     |
| 9    | VKS5455-001  | ACT GEAR(3)  |  | 1                     |        |     |
| 10   | VKS3655-002  | F.P.C. HOLDER  |  | 1                     |        |     |
| 11   | VKM3632-001  | HEAD BASE  | PRESS KIT S                            | 1                     |        |     |
| 13   | SDST2004Z  | SCREW  |  | 3                     |        |     |
| 14   | VKZ4708-001  | SPECIAL SCREW  |  | 1                     |        |     |
| 16   | VKS5430-008  | FR ARM ASSY  |  | 1                     |        |     |
| 19   | VKF3184-00H  | FLYWHEEL(R)ASY   |  | 1                     |        |     |
| 20   | VKF3186-00H  | FLYWHEEL(L)ASY   |  | 1                     |        |     |
| 21   | MMN-6F4RA38  | D.C.MOTOR  | FOR REEL,MOTOR                         | 1                     |        |     |
| 22   | VKS5432-001  | REEL MOT. GEAR   | GEAR KIT S                             | 1                     |        |     |
| 23   | VKZ4705-001  | SPECIAL SCREW  |  | 2                     |        |     |
| 24   | MSN-5D257A   | D.C.MOTOR  | FOR ACT,MOTOR K                        | 1                     |        |     |
| 25   | VKS5433-001  | ACT.MOTOR GEAR   | GEAR KIT S                             | 1                     |        |     |
| 26   | VKZ4705-002  | SPECIAL SCREW  |  | 2                     |        |     |
| 27   | VKP4227-008  | PINCH R.(R) ASY  |  | 1                     |        |     |
| 28   | VKP4229-008  | PINCH R.(L) ASY  |  | 1                     |        |     |
| 29   | VKW5045-003  | P.R. SP.(R)  | FOR PINCH (R)                          | 1                     |        |     |
| 30   | VKW5046-003  | P.R. SP.(L)  | FOR PINCH (L)                          | 1                     |        |     |
| 31   | VKY4670-001  | CASSETTE SPRING  | PRESS KIT S                            | 1                     |        |     |
| 32   | MSI-5B2LW  | D.C.MOTOR  | FOR CAP,MOTOR K                        | 1                     |        |     |
| 33   | VKR4364-002  | MOTOR PULLEY   |  | 1                     |        |     |
| 34   | SPSP2603Z  | SCREW  |  | 2                     |        |     |
| 35   | VKM3636-002  | FM. BRACKET  | PRESS KIT S                            | 1                     |        |     |
| 36   | VKS5327-004  | THRUST PLATE   |  | 1                     |        |     |
| 37   | SDSF2608Z  | SCREW  |  | 3                     |        |     |
| 38   | VKB3001-051  | BELT   |  | 1                     |        |     |
| 39   | SDST2612Z  | SCREW  |  | 1                     |        |     |
| 40   | VKS3616-00A  | CAM SW UNIT  |  | 1                     |        |     |
| 41   | DN6851-H1  | HALL IC  |  | 1                     |        |     |
| 42   | VKS3630-001  | IC HOLDER  |  | 1                     |        |     |
| 43   | VSH1170-001  | CASSETTE SWITCH  |  | 4                     |        |     |
| 44   | VKS3614-001  | TURN OVER GEAR   |  | 1                     |        |     |
| 45   | VKW5063-003  | HEAD SPRING  |  | 1                     |        |     |
| 46   | VKZ4629-003  | SPECIAL SCREW  |  | 2                     |        |     |
| 47   | VKS3654-001  | HEAD MT. COVER   |  | 1                     |        |     |

1 2 3 4 5

■ Analytic Drawing of Cassette mechanism: Block No. M 7

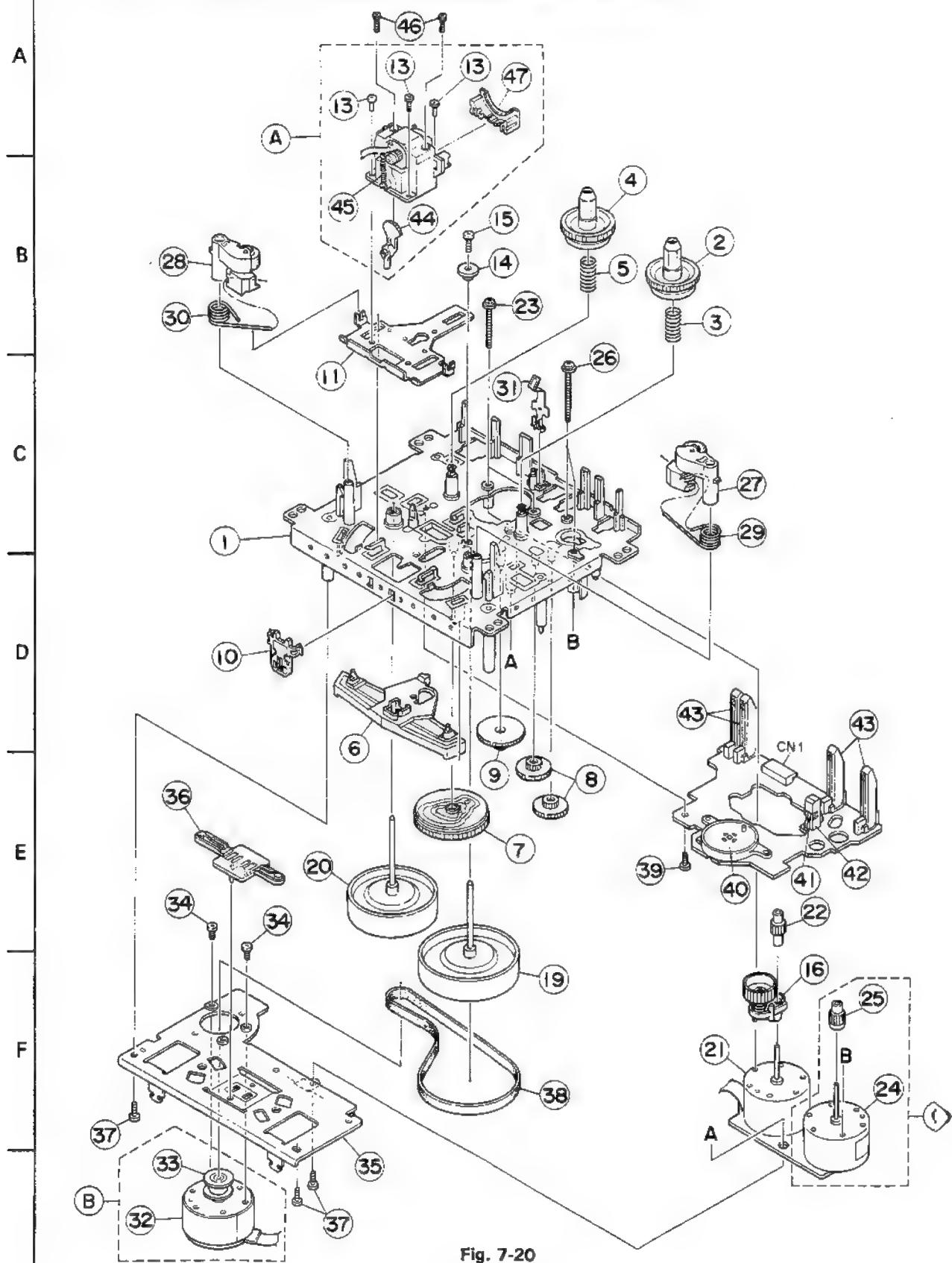


Fig. 7-20

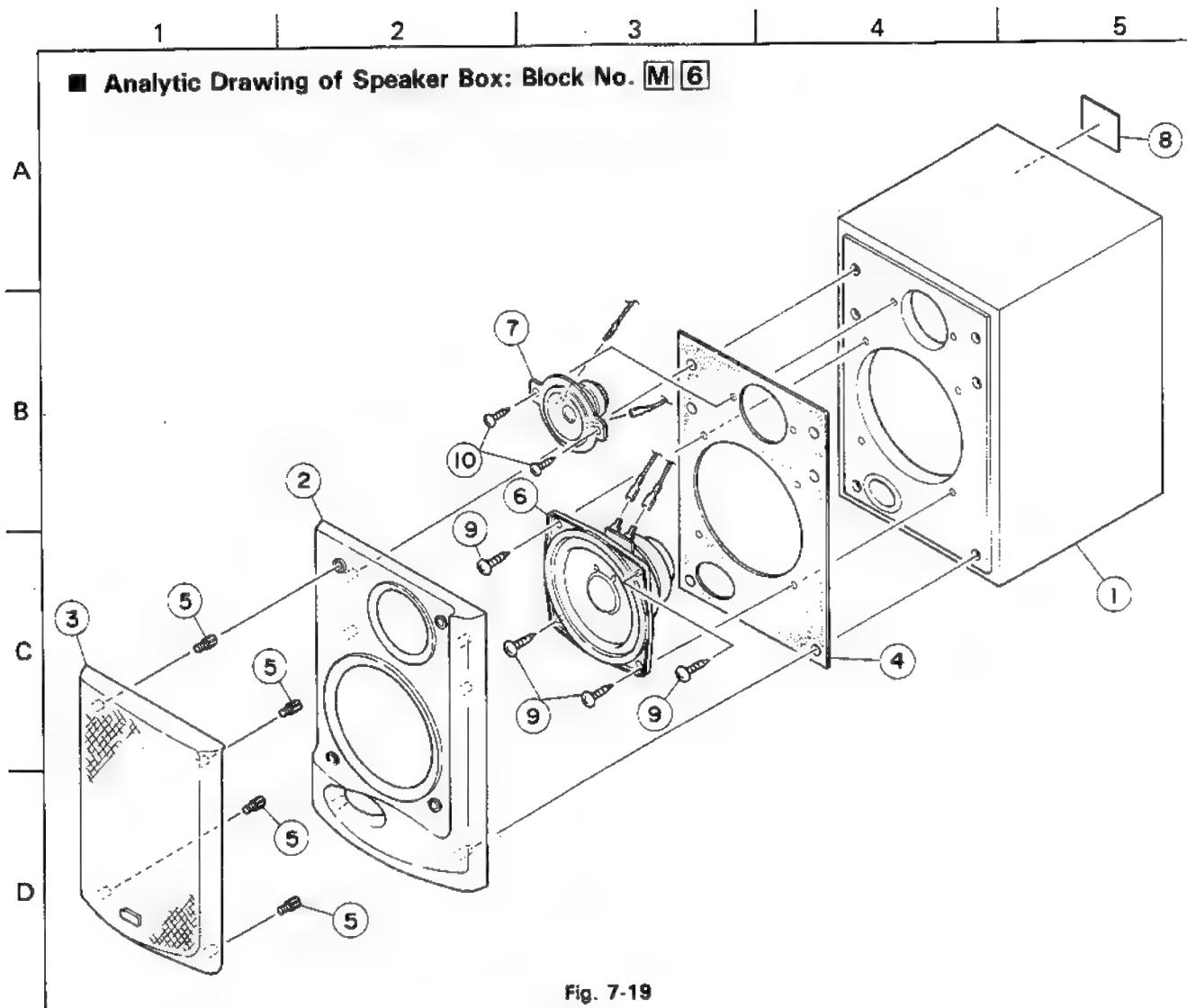


Fig. 7-19

BLOCK NO. M6MM

| REF. | PARTS NO.                    | PARTS NAME      | REMARKS                     | QTY    | SUFFIX | CLR |
|------|------------------------------|-----------------|-----------------------------|--------|--------|-----|
| 1    | DH505-LUX-A4<br>DH505-RUX-A4 | SPEAKER BOX ASY | LEFT<br>RIGHT               | 1<br>1 |        |     |
| 2    | DH401-LUX-A4<br>DH401-RUX-A4 | FRONT PANEL     | LEFT<br>RIGHT               | 1<br>1 |        |     |
| 3    | DH903-LUX-A4                 | SPEAKER NET     | LEFT                        | 1      |        |     |
|      | DH903-RUX-A4                 | SPEAKER NET     | RIGHT                       | 1      |        |     |
| 4    | DH429-1UX-A4                 | RUBBER PACKING  |                             | 1      |        |     |
| 5    | DH429-UX-A4                  | INSERT NUT      |                             | 4      |        |     |
| 6    | VGS1201-008                  | SPEAKER         | 12CM                        | 1      |        |     |
| 7    | VGS0501-004                  | SPEAKER         | 5CM                         | 1      |        |     |
| 8    | DH610-UX-A4                  | NAME PLATE      |                             | 1      |        |     |
| 9    | SDSA4014M                    | SCREW           |                             | 4      |        |     |
| 10   | SDSA4012M                    | SCREW           | 12CM SPEAKER<br>5CM SPEAKER | 2      |        |     |

■ CD Amplifier P.C. Board: Drawing No. VMW1308, Block No. 08

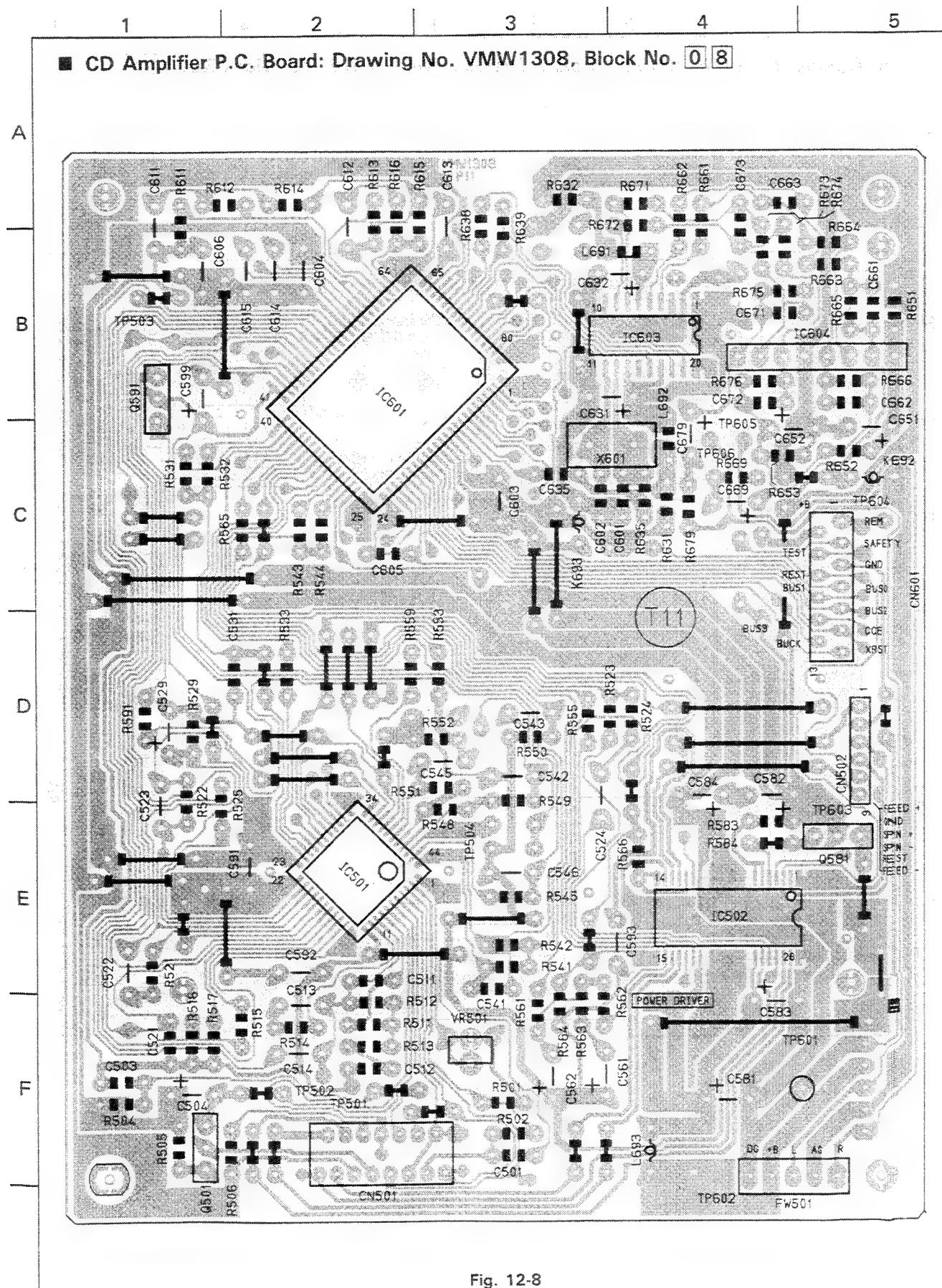


Fig. 12-8

1 2 3 4 5

■ Operation Key Switch P.C. Board: Drawing No. VMW2375, Block No. 0 7

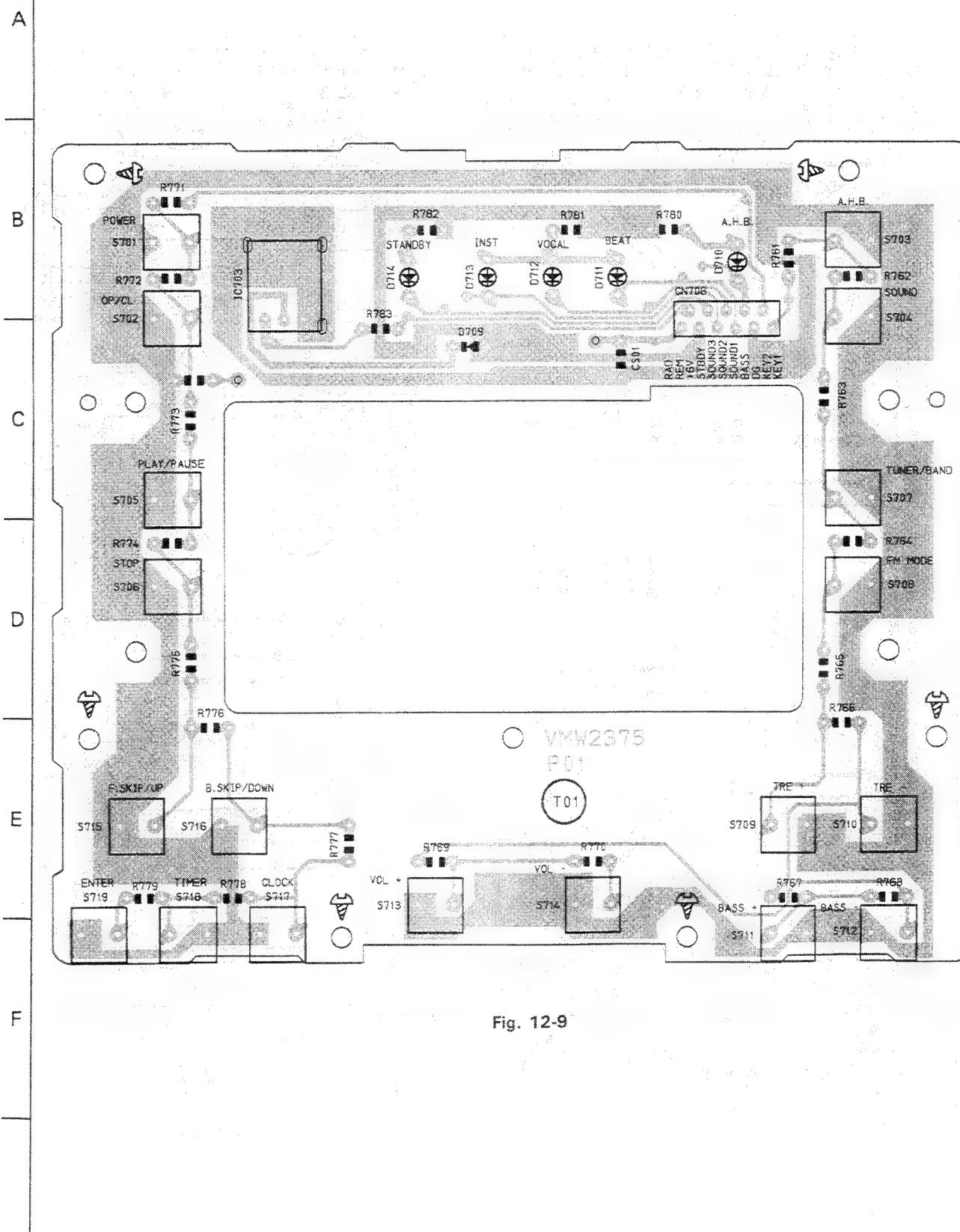


Fig. 12-9

1                   2                   3                   4                   5

■ Power Amplifier P.C. Board: Drawing No. VMW1321A, Block No. 02

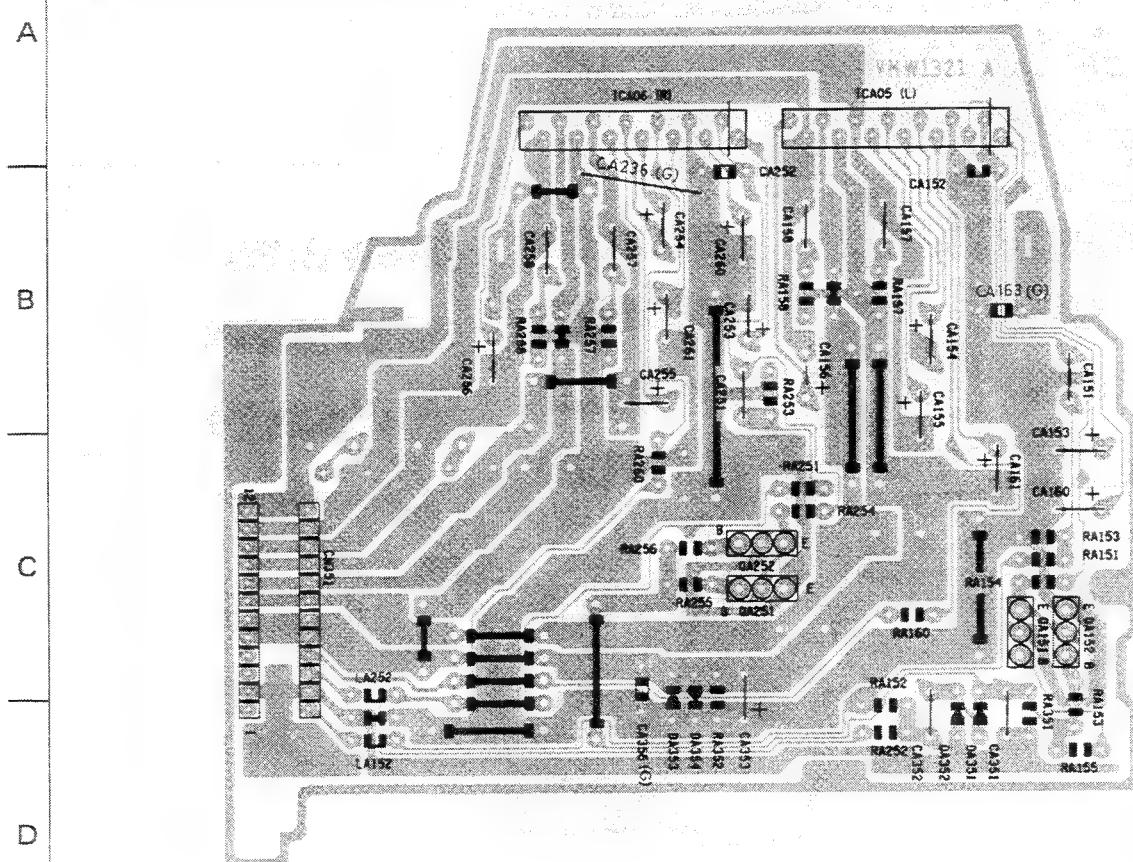


Fig. 12-10

■ Fuse P.C. Board: Drawing No. VMW1321B, Block No. 01

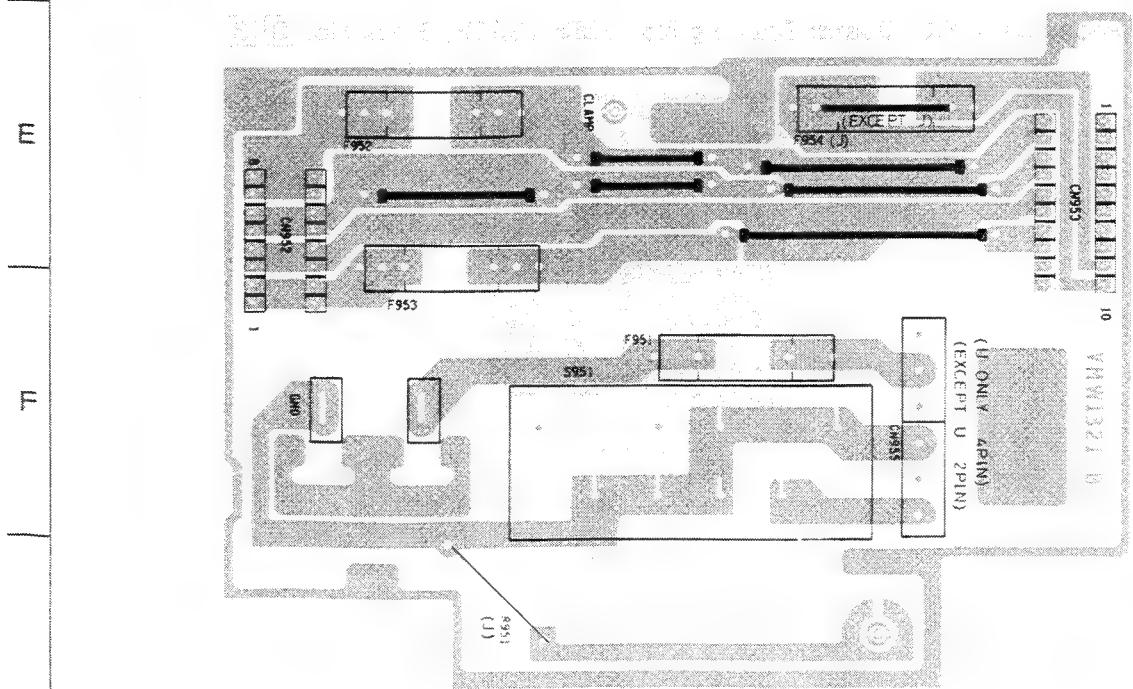


Fig. 12-11

1 2 3 4 5

■ Power Trans P.C. Board: Drawing No. VMW1321C, Block No. 0 1

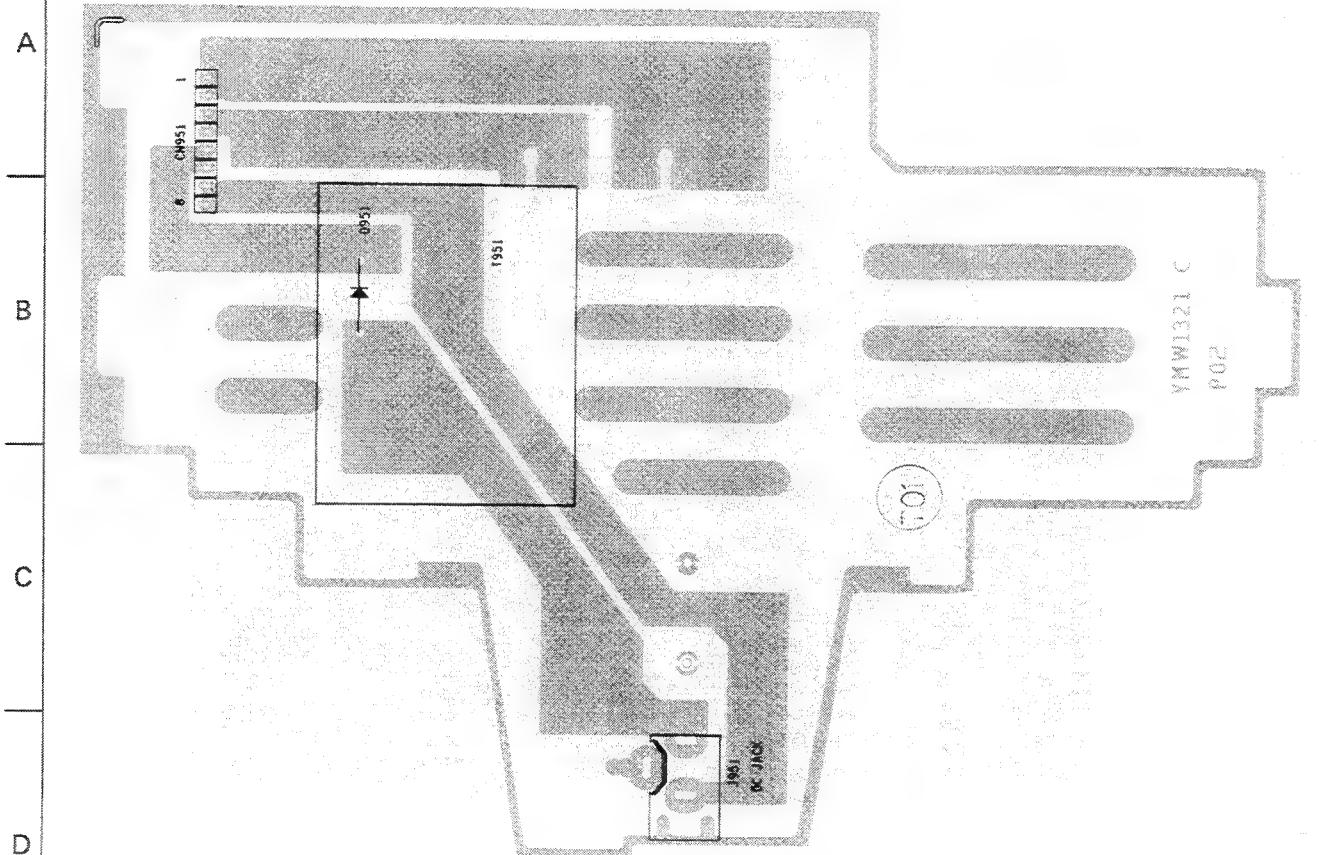


Fig. 12-12

■ Head Phone Jack P.C. Board: Drawing No. VMW1321H, Block No. 0 3

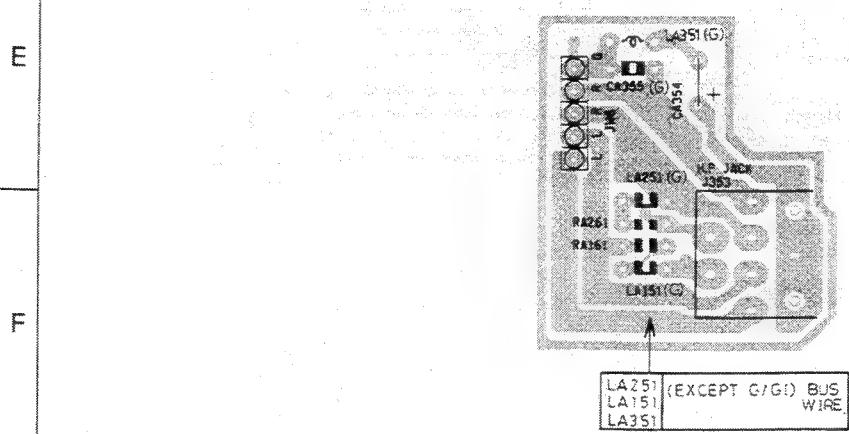
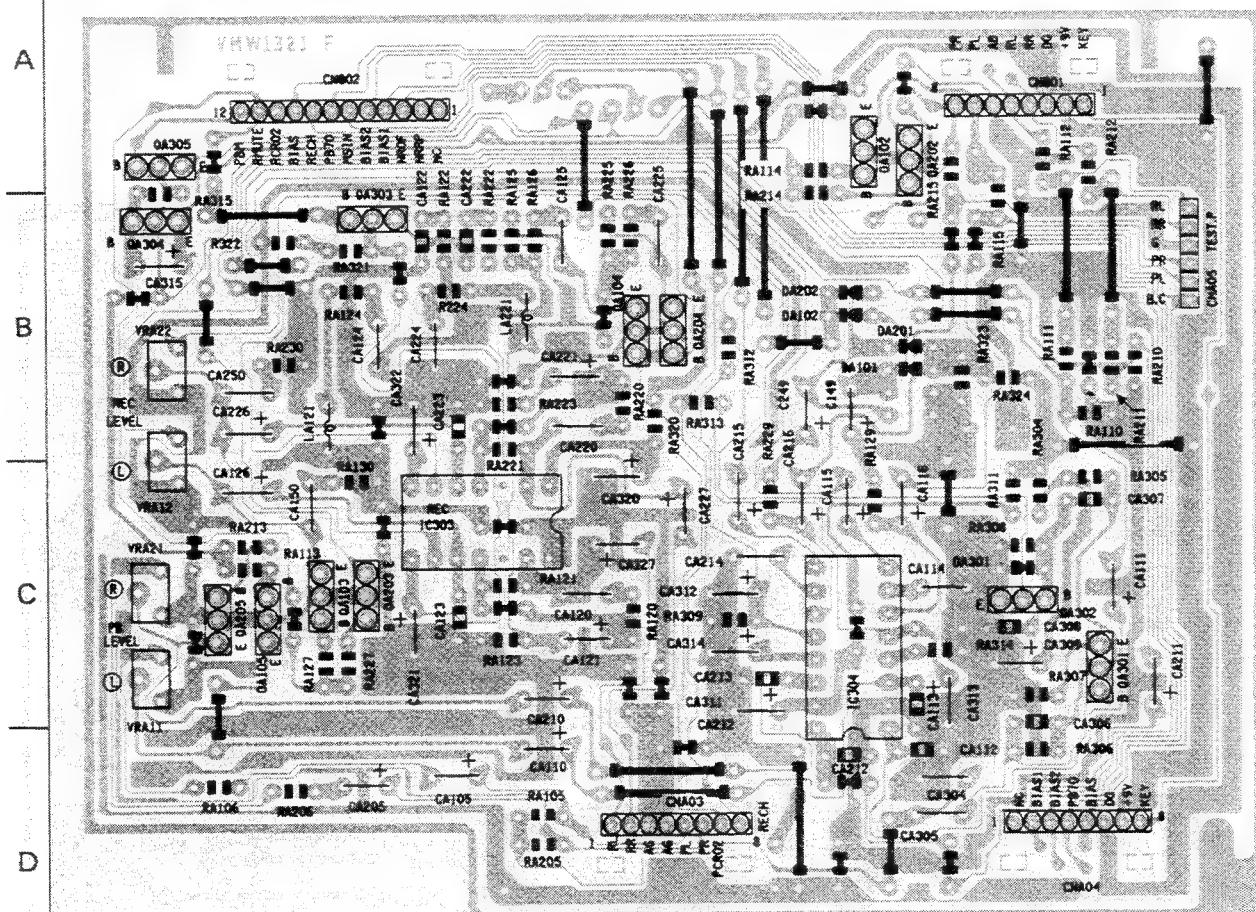


Fig. 12-13

1                    2                    3                    4                    5



**Fig. 12-14**

■ Operation Key Switch P.C. Board: Drawing No. VMW1321G, Block No. 04

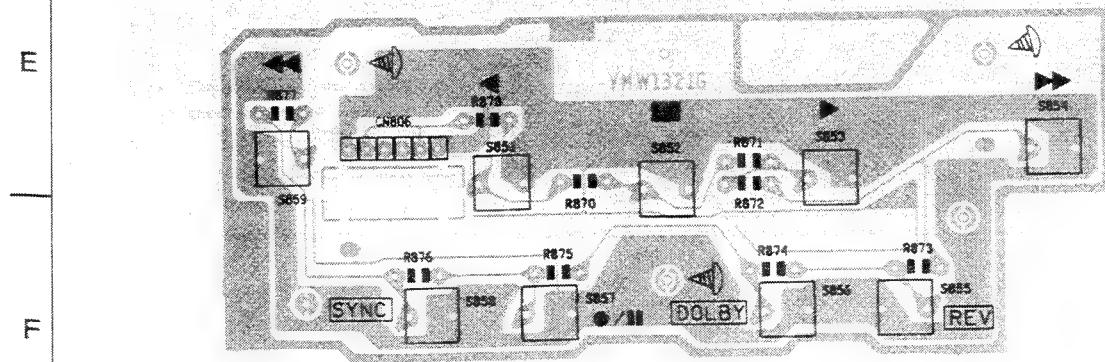


Fig. 12-15

1                   2                   3                   4                   5

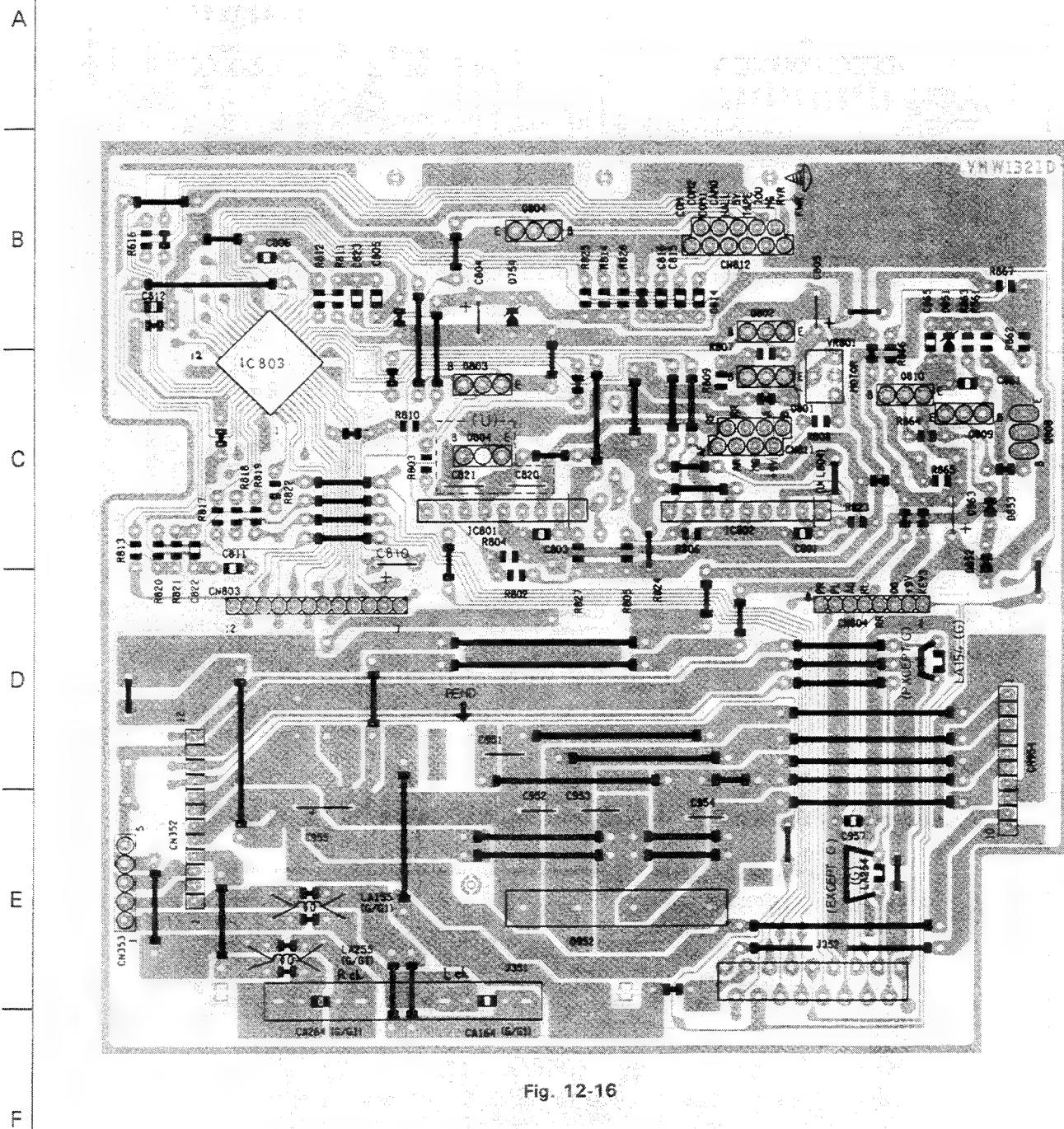


Fig. 12-16

| A     | REF.         | PARTS NO.       | PARTS NAME | REMARKS | BLOCK NO. 04111111 | SUFFIX |
|-------|--------------|-----------------|------------|---------|--------------------|--------|
| R1106 | QRD161J-103  | CARBON RESISTOR | 10K 5%     | 1/6W    |                    |        |
| R1110 | QRD161J-222  | CARBON RESISTOR | 2.2K 5%    | 1/6W    |                    |        |
| R1111 | QRD161J-503Y | CARBON RESISTOR | 30K 5%     | 1/6W    |                    |        |
| R1112 | QRD161J-243  | CARBON RESISTOR | 24K 5%     | 1/6W    |                    |        |
| R1113 | QRD161J-472  | CARBON RESISTOR | 4.7K 5%    | 1/6W    |                    |        |
| R1114 | QRD161J-103  | CARBON RESISTOR | 10K 5%     | 1/6W    |                    |        |
| R1115 | QRD161J-102  | CARBON RESISTOR | 1.0K 5%    | 1/6W    |                    |        |
| R1120 | QRD161J-153  | CARBON RESISTOR | 15K 5%     | 1/6W    |                    |        |
| R1121 | QRD161J-153  | CARBON RESISTOR | 15K 5%     | 1/6W    |                    |        |
| R1122 | QRD161J-221  | CARBON RESISTOR | 220 5%     | 1/6W    |                    |        |
| R1123 | QRD161J-382  | CARBON RESISTOR | 1.8K 5%    | 1/6W    |                    |        |
| R1124 | QRD161J-331  | CARBON RESISTOR | 330 5%     | 1/6W    |                    |        |
| R1125 | QRD161J-392  | CARBON RESISTOR | 3.9K 5%    | 1/6W    |                    |        |
| R1126 | QRD161J-182  | CARBON RESISTOR | 1.8K 5%    | 1/6W    |                    |        |
| R1127 | QRD161J-472  | CARBON RESISTOR | 4.7K 5%    | 1/6W    |                    |        |
| R1128 | QRD161J-103  | CARBON RESISTOR | 10K 5%     | 1/6W    |                    |        |
| R1129 | QRD161J-102  | CARBON RESISTOR | 1.0K 5%    | 1/6W    |                    |        |
| R1130 | QRD161J-122  | CARBON RESISTOR | 1.2K 5%    | 1/6W    |                    |        |
| R1201 | QRD161J-080  | CARBON RESISTOR | 68 5%      | 1/6W    |                    |        |
| R2020 | QRD161J-354  | CARBON RESISTOR | 350K 5%    | 1/6W    |                    |        |
| R2023 | QRD167J-682  | CARBON RESISTOR | 6.8K 5%    | 1/6W    |                    |        |
| R2024 | QRD167J-562  | CARBON RESISTOR | 5.6K 5%    | 1/6W    |                    |        |
| R2025 | QRD161J-122  | CARBON RESISTOR | 10K MS IN  |         |                    |        |
| R2026 | QRD161J-103  | CARBON RESISTOR | 1.0K 5%    | 1/6W    |                    |        |
| R2120 | QRD161J-222  | CARBON RESISTOR | 2.2K 5%    | 1/6W    |                    |        |
| R2121 | QRD161J-103Y | CARBON RESISTOR | 30K 5%     | 1/6W    |                    |        |
| R2122 | QRD161J-243  | CARBON RESISTOR | 24K 5%     | 1/6W    |                    |        |
| R2123 | QRD161J-472  | CARBON RESISTOR | 4.7K 5%    | 1/6W    |                    |        |
| R2124 | QRD161J-103  | CARBON RESISTOR | 10K 5%     | 1/6W    |                    |        |
| R2125 | QRD161J-102  | CARBON RESISTOR | 1.0K 5%    | 1/6W    |                    |        |
| R2220 | QRD161J-153  | CARBON RESISTOR | 15K 5%     | 1/6W    |                    |        |
| R2221 | QRD161J-153  | CARBON RESISTOR | 15K 5%     | 1/6W    |                    |        |
| R2222 | QRD161J-221  | CARBON RESISTOR | 220 5%     | 1/6W    |                    |        |
| R2223 | QRD161J-182  | CARBON RESISTOR | 1.8K 5%    | 1/6W    |                    |        |
| R2224 | QRD161J-331  | CARBON RESISTOR | 330 5%     | 1/6W    |                    |        |
| R2225 | QRD161J-192  | CARBON RESISTOR | 1.9K 5%    | 1/6W    |                    |        |
| R2226 | QRD161J-182  | CARBON RESISTOR | 1.8K 5%    | 1/6W    |                    |        |
| R2227 | QRD161J-472  | CARBON RESISTOR | 4.7K 5%    | 1/6W    |                    |        |
| R2228 | QRD161J-103  | CARBON RESISTOR | 10K 5%     | 1/6W    |                    |        |
| R2229 | QRD161J-102  | CARBON RESISTOR | 1.0K 5%    | 1/6W    |                    |        |
| R2320 | QRD161J-122  | CARBON RESISTOR | 1.2K 5%    | 1/6W    |                    |        |
| R3021 | QRD161J-221  | CARBON RESISTOR | 220 5%     | 1/6W    |                    |        |
| R3022 | QRD161J-103  | CARBON RESISTOR | 10K 5%     | 1/6W    |                    |        |
| R3023 | QRD161J-221  | CARBON RESISTOR | 220 5%     | 1/6W    |                    |        |
| R3024 | QRD161J-331  | CARBON RESISTOR | 330 5%     | 1/6W    |                    |        |
| R3025 | QRD161J-473  | CARBON RESISTOR | 6.7K 5%    | 1/6W    |                    |        |
| R3026 | QRD161J-225  | CARBON RESISTOR | 2.2M 5%    | 1/6W    |                    |        |
| R3027 | QRD167J-121  | CARBON RESISTOR | 120 5%     | 1/6W    |                    |        |
| R3028 | QRD161J-104  | CARBON RESISTOR | 100K 5%    | 1/6W    |                    |        |
| R3121 | QRD161J-221  | CARBON RESISTOR | 220 5%     | 1/6W    |                    |        |
| R3122 | QRD161J-103  | CARBON RESISTOR | 10K 5%     | 1/6W    |                    |        |
| R3123 | QRD161J-103  | CARBON RESISTOR | 220 5%     | 1/6W    |                    |        |
| R3124 | QRD161J-183  | CARBON RESISTOR | 18K 5%     | 1/6W    |                    |        |
| R3125 | QRD161J-223  | CARBON RESISTOR | 22K 5%     | 1/6W    |                    |        |
| R3220 | QRD161J-221  | CARBON RESISTOR | 220 5%     | 1/6W    |                    |        |

| A     | REF.        | PARTS NO.       | PARTS NAME      | REMARKS      | SUFFIX | BLOCK NO. 04111111 |
|-------|-------------|-----------------|-----------------|--------------|--------|--------------------|
|       | QA312       | 2SD1302(S,T)    | TRANSISTOR      |              |        |                    |
|       | QA313       | 2SD1302(S,T)    | TRANSISTOR      |              |        |                    |
| R     | 803         | GRD161J-582     | CARBON RESISTOR | 6.8K 5% 1/6W |        |                    |
| R     | 804         | GRD161J-432     | CARBON RESISTOR | 4.3K 5% 1/6W |        |                    |
| R     | 805         | GRD161J-183     | CARBON RESISTOR | 68K 5% 1/6W  |        |                    |
| R     | 806         | GRD161J-503     | CARBON RESISTOR | 18K 5% 1/6W  |        |                    |
| R     | 807         | GRD161J-472     | CARBON RESISTOR | 20K 5% 1/6W  |        |                    |
| R     | 808         | GRD161J-222     | CARBON RESISTOR | 6.7K 5% 1/6W |        |                    |
| R     | 809         | GRD161J-773     | CARBON RESISTOR | 8.2K 5% 1/6W |        |                    |
| R     | 810         | GRD161J-703     | CARBON RESISTOR | 10K 5% 1/6W  |        |                    |
| R     | 811         | GRD161J-584     | CARBON RESISTOR | 680K 5% 1/6W |        |                    |
| R     | 812         | GRD161J-224     | CARBON RESISTOR | 220K 5% 1/6W |        |                    |
| R     | 813         | GRD161J-102     | CARBON RESISTOR | 1.0K 5% 1/6W |        |                    |
| R     | 814         | GRD161J-192     | CARBON RESISTOR | 3.9K 5% 1/6W |        |                    |
| R     | 816         | GRD161J-273     | CARBON RESISTOR | 27K 5% 1/6W  |        |                    |
| R     | 817         | GRD161J-172     | CARBON RESISTOR | 4.7K 5% 1/6W |        |                    |
| R     | 818         | GRD161J-103     | CARBON RESISTOR | 10K 5% 1/6W  |        |                    |
| R     | 819         | GRD161J-222     | CARBON RESISTOR | 2.2K 5% 1/6W |        |                    |
| R     | 820         | GRD161J-563     | CARBON RESISTOR | 56K 5% 1/6W  |        |                    |
| R     | 821         | GRD161J-663     | CARBON RESISTOR | 56K 5% 1/6W  |        |                    |
| R     | 822         | GRD161J-103     | CARBON RESISTOR | 10K 5% 1/6W  |        |                    |
| R     | 823         | GRD161J-151     | CARBON RESISTOR | 150K 5% 1/6W |        |                    |
| R     | 825         | GRD161J-392     | CARBON RESISTOR | 3.9K 5% 1/6W |        |                    |
| R     | 826         | GRD161J-392     | CARBON RESISTOR | 3.9K 5% 1/6W |        |                    |
| R     | 827         | GRD161J-151     | CARBON RESISTOR | 150 5% 1/6W  |        |                    |
| R     | 851         | GRD14CJ-100SK   | CARBON RESISTOR | 10 5% 1/4W   |        |                    |
| R     | 852         | GRD161J-273     | CARBON RESISTOR | 27K 5% 1/6W  |        |                    |
| R     | 853         | GRD161J-273     | CARBON RESISTOR | 27K 5% 1/6W  |        |                    |
| R     | 854         | GRD161J-383     | CARBON RESISTOR | 3.5M 5% 1/6W |        |                    |
| R     | 855         | GRD161J-472     | CARBON RESISTOR | 4.7K 5% 1/6W |        |                    |
| R     | 856         | GRD161J-472     | CARBON RESISTOR | 4.7K 5% 1/6W |        |                    |
| R     | 857         | GRD14CJ-101SX   | UF RESISTOR     | 100 5% 1/4W  |        |                    |
| R     | 858         | GRD161J-181     | CARBON RESISTOR | 180 5% 1/6W  |        |                    |
| R     | 861         | GRD161J-563     | CARBON RESISTOR | 56K 5% 1/6W  |        |                    |
| R     | 862         | GRD161J-112     | CARBON RESISTOR | 1.5K 5% 1/6W |        |                    |
| R     | 863         | GRD161J-102     | CARBON RESISTOR | 1.0K 5% 1/6W |        |                    |
| R     | 864         | GRD161J-102     | CARBON RESISTOR | 1.0K 5% 1/6W |        |                    |
| R     | 865         | GRD161J-223     | CARBON RESISTOR | 22K 5% 1/6W  |        |                    |
| R     | 866         | GRD161J-223     | CARBON RESISTOR | 22K 5% 1/6W  |        |                    |
| R     | 867         | GRD161J-121     | CARBON RESISTOR | 120 5% 1/6W  |        |                    |
| R     | 870         | GRD161J-122     | CARBON RESISTOR | 1.2K 5% 1/6W |        |                    |
| R     | 871         | GRD161J-152     | CARBON RESISTOR | 1.5K 5% 1/6W |        |                    |
| R     | 872         | GRD161J-222     | CARBON RESISTOR | 2.2K 5% 1/6W |        |                    |
| R     | 873         | GRD161J-272     | CARBON RESISTOR | 2.7K 5% 1/6W |        |                    |
| R     | 874         | GRD161J-392     | CARBON RESISTOR | 3.9K 5% 1/6W |        |                    |
| R     | 875         | GRD167J-562     | CARBON RESISTOR | 5.6K 5% 1/6W |        |                    |
| R     | 876         | GRD161J-103     | CARBON RESISTOR | 10K 5% 1/6W  |        |                    |
| R     | 877         | GRD161J-183     | CARBON RESISTOR | 18K 5% 1/6W  |        |                    |
| R     | 878         | GRD161J-202     | CARBON RESISTOR | 2.0K 5% 1/6W |        |                    |
| RA101 | GRD161J-680 | CARBON RESISTOR | 68 5% 1/6W      |              |        |                    |
| RA102 | GRD161J-334 | CARBON RESISTOR | 330K 5% 1/6W    |              |        |                    |
| RA103 | GRD167J-582 | CARBON RESISTOR | 6.8K 5% 1/6W    |              |        |                    |
| RA104 | GRD167J-582 | CARBON RESISTOR | 5.6K 5% 1/6W    |              |        |                    |
| RA105 | GRD161J-722 | CARBON RESISTOR | MS IN           |              |        |                    |

## • LCD/Micro Computer P.C. Board

| BLOCK NO. 04 |                |                 |                 | SUFFIX |
|--------------|----------------|-----------------|-----------------|--------|
| REF.         | PARTS NO.      | PARTS NAME      | REMARKS         |        |
| RA321        | GRD161J-475    | CARBON RESISTOR | 4.7M SX 1/6W    |        |
| RA322        | GRD161J-475    | CARBON RESISTOR | 4.7M SX 1/6W    |        |
| RA323        | GRD161J-101    | CARBON RESISTOR | 100 SX 1/6W     |        |
| RA324        | GRD161J-222    | CARBON RESISTOR | 2.2K SX 1/6W    |        |
| RA340        | GRD161J-223    | CARBON RESISTOR | 22K SX 1/6W     |        |
| RA341        | GRD161J-152    | CARBON RESISTOR | 1.5K SX 1/6W    |        |
| RA342        | GRD161J-223    | CARBON RESISTOR | 22K SX 1/6W     |        |
| RA343        | GRD161J-152    | CARBON RESISTOR | 1.5K SX 1/6W    |        |
| S 851        | QSQ1A11-V042   | TACT SW         | REV             |        |
| S 852        | QSQ1A11-V042   | TACT SW         | REV             |        |
| S 853        | QSQ1A11-V042   | TACT SW         | STOP            |        |
| S 854        | QSQ1A11-V042   | TACT SW         | FWD             |        |
| S 855        | QSQ1A11-V042   | TACT SW         | FF              |        |
| S 856        | QSQ1A11-V042   | TACT SW         | REV-MODE        |        |
| S 857        | QSQ1A11-V042   | TACT SW         | DOLBY           |        |
| S 858        | QSQ1A11-V042   | TACT SW         | REC             |        |
| S 859        | QSQ1A11-V042   | TACT SW         | SYNCHRO         |        |
| VRA11        | QUPA603-502AZM | SEMI.V.RESISTOR | PB LEVEL        |        |
| VRA12        | QUPA603-002AZM | SEMI.V.RESISTOR | REC LEVEL       |        |
| VRA13        | QUPA603-003A   | V RESISTOR      | BIAIS LEVEL     |        |
| VRA21        | QUPA603-002AZM | SEMI.V.RESISTOR | PB LEVEL        |        |
| VRA22        | QUPA603-502AZM | SEMI.V.RESISTOR | REC LEVEL       |        |
| VRA23        | QUPA603-503A   | V RESISTOR      | BIAIS LEVEL     |        |
| VR801        | QV73523-103AZ  | V RESISTOR      | TAPE SPEED ADJ. |        |

| REF.  | PARTS NO.     | PARTS NAME   | REMARKS        | BLOCK NO. C | SUFFIX X |
|-------|---------------|--------------|----------------|-------------|----------|
| C 701 | QCS11HJ-270   | C CAPACITOR  | 27PF 5% 50V    |             |          |
| C 702 | QCS11HJ-330   | C CAPACITOR  | 33PF 5% 50V    |             |          |
| C 703 | QCS11HJ-470   | C CAPACITOR  | 47PF 5% 50V    |             |          |
| C 704 | QCS11HJ-560   | C CAPACITOR  | 56PF 5% 50V    |             |          |
| C 705 | QCS11HJ-330   | C CAPACITOR  | 33PF 5% 50V    |             |          |
| C 706 | GCS11HJ-330   | C CAPACITOR  | 33PF 5% 50V    |             |          |
| C 707 | QCXB1HK-472Y  | C CAPACITOR  | 4700PF 20% 16V |             |          |
| C 708 | QCBB1HK-102Y  | C CAPACITOR  | 1000PF 10% 50V |             |          |
| C 709 | QCBB1HK-102Y  | C CAPACITOR  | 1000PF 10% 50V |             |          |
| C 710 | QCBB1HK-102Y  | C CAPACITOR  | 1000PF 10% 50V |             |          |
| C 711 | QCBB1HK-102Y  | C CAPACITOR  | 1000PF 10% 50V |             |          |
| C 712 | QCBB1HK-102Y  | C CAPACITOR  | 1000PF 10% 50V |             |          |
| C 713 | QCBB1HK-102Y  | C CAPACITOR  | 1000PF 10% 50V |             |          |
| C 714 | QCBB1HK-102Y  | C CAPACITOR  | 1000PF 10% 50V |             |          |
| C 715 | QETC1HM-352N  | E CAPACITOR  | VOL PHM        |             |          |
| C 730 | QETC1HM-1062N | E CAPACITOR  | 10MF 20% 16V   |             |          |
| C 731 | QETC1HM-1052N | E CAPACITOR  | 1.0MF 20% 50V  |             |          |
| C 732 | QETC1HM-1072N | E CAPACITOR  | 100MF 20% 10V  |             |          |
| C 733 | QETC1HM-1062N | E CAPACITOR  | 10MF 20% 16V   |             |          |
| C 734 | QETC1HM-1062N | E CAPACITOR  | 10MF 20% 16V   |             |          |
| C 735 | QETC1HM-1062N | E CAPACITOR  | 10MF 20% 16V   |             |          |
| C 736 | QETC1HM-1062N | E CAPACITOR  | 10MF 20% 16V   |             |          |
| C 740 | VCE0056-4792  | SUPER CAP.   |                |             |          |
| C 741 | QCBB1HK-102Y  | C CAPACITOR  | 1000PF 10% 50V |             |          |
| C 742 | QCBB1HK-102Y  | C CAPACITOR  | 1000PF 10% 50V |             |          |
| C 743 | QCBB1HK-102Y  | C CAPACITOR  | 1000PF 10% 50V |             |          |
| CN701 | VMC0163-011   | CONNECTOR    | FOR KEY        |             |          |
| CN702 | VMC0163-R13   | CONNECTOR    | FOR FUNC.1     |             |          |
| CN703 | VMC0163-R13   | CONNECTOR    | FOR FUNC.2     |             |          |
| CN704 | VMC0041-006   | CONNECTOR    | FOR CO DOOR    |             |          |
| CN705 | VMC0107-R05   | SOCKET       | FOR CO         |             |          |
| CN706 | VMC0163-009   | CONNECTOR    | FOR CO BUS     |             |          |
| C701  | QETC1HM-1062N | E CAPACITOR  | 10MF 20% 16V   |             |          |
| C702  | QCVB1HM-103Y  | C CAPACITOR  | .010MF 20% 16V |             |          |
| D 701 | ISS1133       | SI DIODE     |                |             |          |
| D 708 | ISS1133       | SI DIODE     |                |             |          |
| D 715 | MT25.1JB      | Z DIODE      |                |             |          |
| D 716 | ISS1133       | SI DIODE     |                |             |          |
| D 717 | ISS1133       | SI DIODE     |                |             |          |
| DS701 | MA700         | ZEINER DIODE |                |             |          |
| ICM01 | MN171603JJB   | IC           | UCOM(CCTL)     |             |          |
| IC701 | MN171603JJB   | IC           | UCOM(CCTL)     |             |          |
| IC702 | BA6208A       | INDUCTOR     | CO 000R        |             |          |
| L 701 | VQZ004-B-009  | INDUCTOR     |                |             |          |
| L 702 | VQP004B-4R7   | INDUCTOR     |                |             |          |
| L 708 | VQP002B-1002  | INDUCTOR     |                |             |          |
| PL 01 | VGZ0001-057   | P.LAMP       |                |             |          |
| PL 02 | VGZ0001-057   | P.LAMP       |                |             |          |
| Q 701 | ZSC2668(0)    | TRANSISTOR   |                |             |          |
| Q 702 | ZSC2668(0)    | TRANSISTOR   |                |             |          |
| Q 703 | DTC114TS      | TRANSISTOR   |                |             |          |
| Q 704 | 2SA1175       | TRANSISTOR   |                |             |          |
| Q 711 | DTC124ES      | TRANSISTOR   |                |             |          |
| Q 712 | ZSC278(HEF)   | TRANSISTOR   |                |             |          |

| BLOCK NO. 05 |              |                              |       | BLOCK NO. 05 | PARTS NAME                   | PARTS NO.          | REF.  | A       |
|--------------|--------------|------------------------------|-------|--------------|------------------------------|--------------------|-------|---------|
|              |              |                              |       | SUFFIX       | REMARKS                      |                    |       |         |
| R 702        | GRD161J-681  | TRANSISTOR                   | CD SN |              | CARBON RESISTOR 680 5% 1/6W  | R 752 QRD161J-223  | R 752 |         |
| R 703        | GRD161J-681  | TRANSISTOR                   |       |              | CARBON RESISTOR 22K 5% 1/6W  | R 753 QRD161J-223  | R 753 |         |
| R 714        | DTC124ES     | TRANSISTOR                   |       |              | CARBON RESISTOR 2.2K 5% 1/6W | R 755 QRD161J-222  | R 755 |         |
| R 715        | DTC124ES     | TRANSISTOR                   |       |              | CARBON RESISTOR 2.2K 5% 1/6W | R 756 QRD161J-222  | R 756 |         |
| R 716        | DTC124ES     | TRANSISTOR                   |       |              | CARBON RESISTOR 2.2K 5% 1/6W | R 757 QRD161J-222  | R 757 |         |
| QST01        | 2SB772(Q,P)  | TRANSISTOR                   |       |              | CARBON RESISTOR 2.2K 5% 1/6W | R 758 QRD161J-772  | R 758 |         |
| QST03        | ZSC2785(HFE) | TRANSISTOR                   |       |              | CARBON RESISTOR 2.7K 5% 1/6W | R 759 QRD161J-87   | R 759 |         |
| R 707        | GRD161J-103  | CARBON RESISTOR 680 5% 1/6W  |       |              | CARBON RESISTOR 4.7 5% 1/6W  | R 760 QRD161J-313  | R 760 | VUL PWM |
| R 708        | GRD161J-103  | CARBON RESISTOR 220K 5% 1/6W |       |              | CARBON RESISTOR 180 5% 1/6W  | R 784 QRD161J-181  | R 784 |         |
| R 709        | GRD161J-222  | CARBON RESISTOR 330 5% 1/6W  |       |              | CARBON RESISTOR 8.2K 5% 1/6W | R 787 QRD161J-822  | R 787 |         |
| R 710        | GRD161J-222  | CARBON RESISTOR 10K 5% 1/6W  |       |              | CARBON RESISTOR 8.2K 5% 1/6W | R 789 QRD161J-882  | R 789 |         |
| R 711        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 790 QRD161J-682  | R 790 |         |
| R 712        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 791 QRD161J-582  | R 791 |         |
| R 713        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 793 QRD161J-683  | R 793 |         |
| R 714        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 794 QRD161J-103  | R 794 |         |
| R 715        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 795 QRD161J-222  | R 795 |         |
| R 716        | GRD161J-223  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 796 QRD161J-222  | R 796 |         |
| R 717        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 797 QRD161J-222  | R 797 |         |
| R 718        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 798 QRD161J-222  | R 798 |         |
| R 719        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 799 QRD161J-472  | R 799 |         |
| R 720        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 10K 5% 1/6W  | RD701 QRD161J-103  | RD701 |         |
| R 721        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 10K 5% 1/6W  | RD702 QRD161J-103  | RD702 |         |
| R 722        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 10K 5% 1/6W  | RS705 QRD161J-103  | RS705 |         |
| R 723        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 10K 5% 1/6W  | RS706 QRD161J-103  | RS706 |         |
| R 724        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 10K 5% 1/6W  | RS707 QRD161J-221  | RS707 |         |
| R 725        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CRYSTAL 220 5% 1/6W          | X 701 VCI5000-001  | X 701 |         |
| R 726        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CERA LOCK                    | X 702 CSAY.19MG933 | X 702 |         |
| R 727        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              |                              |                    |       |         |
| R 728        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              |                              |                    |       |         |
| R 729        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              |                              |                    |       |         |
| R 730        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              |                              |                    |       |         |
| R 731        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              |                              |                    |       |         |
| R 732        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              |                              |                    |       |         |
| R 733        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              |                              |                    |       |         |
| R 734        | GRD161J-182  | CARBON RESISTOR 1.8K 5% 1/6W |       |              |                              |                    |       |         |
| R 735        | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W |       |              |                              |                    |       |         |
| R 736        | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W |       |              |                              |                    |       |         |
| R 737        | GRD161J-821  | CARBON RESISTOR 2.2K 5% 1/6W |       |              |                              |                    |       |         |
| R 738        | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W |       |              |                              |                    |       |         |
| R 739        | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W |       |              |                              |                    |       |         |
| R 740        | GRD161J-221  | CARBON RESISTOR 2.20 5% 1/6W |       |              |                              |                    |       |         |
| R 741        | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W |       |              |                              |                    |       |         |
| R 742        | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W |       |              |                              |                    |       |         |
| R 743        | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W |       |              |                              |                    |       |         |
| R 744        | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W |       |              |                              |                    |       |         |
| R 745        | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W |       |              |                              |                    |       |         |
| R 746        | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W |       |              |                              |                    |       |         |
| R 747        | GRD161J-221  | CARBON RESISTOR 2.20 5% 1/6W |       |              |                              |                    |       |         |
| R 748        | GRD161J-103  | CARBON RESISTOR 1.0K 5% 1/6W |       |              |                              |                    |       |         |
| R 749        | GRD161J-183  | CARBON RESISTOR 18K 5% 1/6W  |       |              |                              |                    |       |         |
| R 750        | GRD161J-473  | CARBON RESISTOR 47K 5% 1/6W  |       |              |                              |                    |       |         |
| R 751        | GRD161J-913  | CARBON RESISTOR CLOSE        |       |              |                              |                    |       |         |

| BLOCK NO. 05 |              |                              |       | BLOCK NO. 05 | PARTS NAME                   | PARTS NO.          | REF.  | A       |
|--------------|--------------|------------------------------|-------|--------------|------------------------------|--------------------|-------|---------|
|              |              |                              |       | SUFFIX       | REMARKS                      |                    |       |         |
| Q 713        | DTC124ES     | TRANSISTOR                   |       |              | CARBON RESISTOR 680 5% 1/6W  | R 752 QRD161J-223  | R 752 |         |
| G 714        | DTC124ES     | TRANSISTOR                   |       |              | CARBON RESISTOR 2.2K 5% 1/6W | R 753 QRD161J-223  | R 753 |         |
| Q 715        | DTC124ES     | TRANSISTOR                   |       |              | CARBON RESISTOR 2.2K 5% 1/6W | R 755 QRD161J-222  | R 755 |         |
| G 716        | DTC124ES     | TRANSISTOR                   |       |              | CARBON RESISTOR 2.2K 5% 1/6W | R 756 QRD161J-222  | R 756 |         |
| QST01        | 2SB772(Q,P)  | TRANSISTOR                   | CD SN |              | CARBON RESISTOR 2.2K 5% 1/6W | R 757 QRD161J-222  | R 757 |         |
| QST03        | ZSC2785(HFE) | TRANSISTOR                   |       |              | CARBON RESISTOR 2.7K 5% 1/6W | R 758 QRD161J-772  | R 758 |         |
| R 702        | GRD161J-681  | CARBON RESISTOR 680 5% 1/6W  |       |              | CARBON RESISTOR 4.7 5% 1/6W  | R 759 QRD161J-87   | R 759 |         |
| R 703        | GRD161J-681  | CARBON RESISTOR 220K 5% 1/6W |       |              | CARBON RESISTOR 180 5% 1/6W  | R 760 QRD161J-313  | R 760 | VUL PWM |
| R 705        | GRD161J-224  | CARBON RESISTOR 330 5% 1/6W  |       |              | CARBON RESISTOR 8.2K 5% 1/6W | R 784 QRD161J-181  | R 784 |         |
| R 706        | GRD161J-331  | CARBON RESISTOR 10K 5% 1/6W  |       |              | CARBON RESISTOR 8.2K 5% 1/6W | R 785 QRD161J-822  | R 785 |         |
| R 707        | GRD161J-103  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 8.2K 5% 1/6W | R 789 QRD161J-882  | R 789 |         |
| R 708        | GRD161J-103  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 8.2K 5% 1/6W | R 790 QRD161J-682  | R 790 |         |
| R 709        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 791 QRD161J-582  | R 791 |         |
| R 710        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 792 QRD161J-273  | R 792 |         |
| R 711        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 793 QRD161J-683  | R 793 |         |
| R 712        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 6.8K 5% 1/6W | R 794 QRD161J-103  | R 794 |         |
| R 713        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 10K 5% 1/6W  | R 795 QRD161J-222  | R 795 |         |
| R 714        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 2.2K 5% 1/6W | R 796 QRD161J-222  | R 796 |         |
| R 715        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 2.2K 5% 1/6W | R 797 QRD161J-222  | R 797 |         |
| R 716        | GRD161J-223  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 2.2K 5% 1/6W | R 798 QRD161J-222  | R 798 |         |
| R 717        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 2.2K 5% 1/6W | R 799 QRD161J-472  | R 799 |         |
| R 718        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 4.7K 5% 1/6W | RD701 QRD161J-103  | RD701 |         |
| R 719        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 10K 5% 1/6W  | RD702 QRD161J-103  | RD702 |         |
| R 720        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 10K 5% 1/6W  | RS705 QRD161J-103  | RS705 |         |
| R 721        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 10K 5% 1/6W  | RS706 QRD161J-103  | RS706 |         |
| R 722        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 10K 5% 1/6W  | RS707 QRD161J-221  | RS707 |         |
| R 723        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              | CARBON RESISTOR 220 5% 1/6W  | X 701 VCI5000-001  | X 701 |         |
| R 724        | GRD161J-222  | CARBON RESISTOR 2.2K 5% 1/6W |       |              |                              | X 702 CSAY.19MG933 | X 702 |         |

## • Function P.C. Board

| REF.  | PARTS NO.      | PARTS NAME   | REMARKS        | SUFFIX | BLOCK NO. <u>04111111</u> |
|-------|----------------|--------------|----------------|--------|---------------------------|
| CF 01 | QEK41CM-475    | E. CAPACITOR | 4.7MF 20X 25V  |        |                           |
| CF 02 | QEK41CM-476    | E. CAPACITOR | 4.7MF 20X 16V  |        |                           |
| CF 03 | QEK41CM-336    | E. CAPACITOR | 3.3MF 20X 16V  |        |                           |
| CF 04 | QEK41CM-476    | E. CAPACITOR | E.VOL          |        |                           |
| CF 05 | QEK41CM-476    | E. CAPACITOR | E.VOL          |        |                           |
| CF 06 | QEK41CM-476    | E. CAPACITOR | 4.7MF 20X 16V  |        |                           |
| CF 07 | QEK41HM-105    | E. CAPACITOR | 1.0MF 20X 50V  |        |                           |
| CF 08 | QEK41HM-105    | E. CAPACITOR | 1.0MF 20X 50V  |        |                           |
| CF 09 | QCVB1CM-103Y   | C. CAPACITOR | 0.10MF 20X 16V |        |                           |
| CF 10 | QCVB1CM-103Y   | C. CAPACITOR | 0.10MF 20X 16V |        |                           |
| CF 11 | QEK61AM-107ZM  | E. CAPACITOR | 100MF 20X 10V  |        |                           |
| CF 12 | QEK41HM-225    | E. CAPACITOR | 2.2MF 20X 50V  |        |                           |
| CF 13 | QCBB1HK-102Y   | C. CAPACITOR | 1000PF 10X 50V |        |                           |
| CF 14 | QEK41HM-225    | E. CAPACITOR | 2.2MF 20X 50V  |        |                           |
| CF 15 | QEK61AM-107ZM  | E. CAPACITOR | 100MF 20X 10V  |        |                           |
| CF 16 | QEK41CM-476    | E. CAPACITOR | 4.7MF 20X 16V  |        |                           |
| CF 17 | QCBB1HK-102Y   | C. CAPACITOR | 1000PF 10X 50V |        |                           |
| CF 18 | QEK41CM-476    | E. CAPACITOR | 4.7MF 20X 16V  |        |                           |
| CF 19 | QEK41HM-105    | E. CAPACITOR | VOL            |        |                           |
| CF 20 | QEK41HM-105    | E. CAPACITOR | BASS           |        |                           |
| CF 21 | QEK41HM-105    | E. CAPACITOR | TRE            |        |                           |
| CF 22 | QEK41CM-476    | E. CAPACITOR | 4.7MF 20X 16V  |        |                           |
| CF 23 | QCVB1CM-103Y   | C. CAPACITOR | 0.10MF 20X 16V |        |                           |
| CF 24 | QCVB1CM-103Y   | C. CAPACITOR | 0.10MF 20X 16V |        |                           |
| CF 25 | QEK41CM-476    | E. CAPACITOR | 4.7MF 20X 16V  |        |                           |
| CF101 | QEK41HM-105    | E. CAPACITOR | 1.0MF 20X 50V  |        |                           |
| CF102 | QEK41CM-106    | E. CAPACITOR | 1.0MF 20X 16V  |        |                           |
| CF103 | QEK41HM-105    | E. CAPACITOR | 1.0MF 20X 50V  |        |                           |
| CF104 | QCBB1HK-151Y   | C. CAPACITOR | E.VOL          |        |                           |
| CF105 | QCXB1CM-472Y   | C. CAPACITOR | 4700PF 20X 16V |        |                           |
| CF106 | QFV81HJ-473    | TF CAPACITOR | 0.047MF 5% 50V |        |                           |
| CF107 | QFV11HJ-154ZM  | TF CAPACITOR | 15MF 5% 50V    |        |                           |
| CF108 | QFV41HJ-104    | TF CAPACITOR | E.VOL          |        |                           |
| CF109 | QEK41HM-105    | E. CAPACITOR | 1.0MF 20X 50V  |        |                           |
| CF110 | QFV11HJ-393AZM | TF CAPACITOR | 0.039MF 5% 50V |        |                           |
| CF111 | QEK41HM-105    | E. CAPACITOR | 1.0MF 20X 50V  |        |                           |
| CF112 | QCBB1HK-331Y   | C. CAPACITOR | 3.30PF 10% 50V |        |                           |
| CF113 | QEK41CM-226    | E. CAPACITOR | 2.2MF 20X 16V  |        |                           |
| CF114 | QFV11HJ-563AZM | TF CAPACITOR | 0.056MF 5% 50V |        |                           |
| CF115 | QFV41HJ-823    | TF CAPACITOR | 0.082MF 5% 50V |        |                           |
| CF116 | QCBB1HK-151Y   | C. CAPACITOR | 150PF 10X 50V  |        |                           |
| CF117 | QCS11HJ-330    | C. CAPACITOR | 3.3PF 5% 50V   |        |                           |
| CF201 | QEK41HM-105    | E. CAPACITOR | 1.0MF 20X 50V  |        |                           |
| CF202 | QEK41CM-106    | E. CAPACITOR | 1.0MF 20X 16V  |        |                           |
| CF203 | QEK41HM-105    | E. CAPACITOR | 1.0MF 20X 50V  |        |                           |
| CF204 | QCBB1HK-151Y   | C. CAPACITOR | E.VOL          |        |                           |
| CF205 | QCXB1CM-472Y   | C. CAPACITOR | 4700PF 20X 16V |        |                           |
| CF206 | QFV81HJ-473    | TF CAPACITOR | 0.047MF 5% 50V |        |                           |
| CF207 | QFV11HJ-154ZM  | TF CAPACITOR | 15MF 5% 50V    |        |                           |
| CF208 | QFV41HJ-104    | TF CAPACITOR | E.VOL          |        |                           |
| CF209 | QEK41HM-105    | E. CAPACITOR | 1.0MF 20X 50V  |        |                           |
| CF210 | QFV11HJ-393AZM | TF CAPACITOR | 0.039MF 5% 50V |        |                           |
| CF211 | QEK41HM-105    | E. CAPACITOR | 1.0MF 20X 50V  |        |                           |
| CF212 | QCBB1HK-331Y   | C. CAPACITOR | 3.30PF 10X 50V |        |                           |
| CF213 | QEK41CM-226    | E. CAPACITOR | 2.2MF 20X 16V  |        |                           |

| REF.   | PARTS NO.      | PARTS NAME   | REMARKS       | SUFFIX | BLOCK NO. <u>04111111</u> |
|--------|----------------|--------------|---------------|--------|---------------------------|
| CF 214 | QFV11HJ-563AZM | TF CAPACITOR | .056MF 5% 50V |        |                           |
| CF 215 | QFV41HJ-823    | TF CAPACITOR | .082MF 5% 50V |        |                           |
| CF 216 | QCBB1HK-151Y   | C. CAPACITOR | 150PF 10X 50V |        |                           |
| CF 217 | QCS11HJ-330    | C. CONNECTOR | 33PF 5% 50V   |        |                           |
| CFN01  | VMC0163-R13    | CONNECTOR    | FOR UCOM.1    |        |                           |
| CFN02  | VMC0163-R13    | CONNECTOR    | FOR UCOM.2    |        |                           |
| DF 01  | MA165          | SI DIODE     |               |        |                           |
| DF 02  | MA165          | SI DIODE     |               |        |                           |
| DF 03  | MA165          | SI DIODE     |               |        |                           |
| DF 04  | MT5.6JA        | Z.DIODE      |               |        |                           |
| DF 05  | MA165          | SI DIODE     |               |        |                           |
| DF 06  | MA165          | SI DIODE     |               |        |                           |
| DF 07  | MA165          | SI DIODE     |               |        |                           |
| DF 08  | M178.2JC       | Z.DIODE      |               |        |                           |
| DF 09  | M17.6.2B       | Z.DIODE      |               |        |                           |
| DF 10  | MA165          | SI DIODE     |               |        |                           |
| DF 11  | MA165          | SI DIODE     |               |        |                           |
| ICF01  | VC580L         | IC           |               |        |                           |
| ICF02  | TA8184P        | IC           |               |        |                           |
| ICF03  | VC580L         | IC           |               |        |                           |
| ICF04  | VC4820LD       | IC           |               |        |                           |
| LF 01  | VP025K-4R7V    | INDUCTOR     |               |        |                           |
| QF 01  | UN4111         | TRANSISTOR   | MUTE.D        |        |                           |
| QF 02  | 2SB62(C)       | TRANSISTOR   | US6V          |        |                           |
| QF 03  | 2SC785(HFE)    | TRANSISTOR   | US6V          |        |                           |
| QF 04  | UN411E         | TRANSISTOR   |               |        |                           |
| QF 05  | 2SA1129 (K)    | TRANSISTOR   |               |        |                           |
| QF 06  | 2SC785 (HFE)   | TRANSISTOR   |               |        |                           |
| QF 07  | 2SC785 (HFE)   | TRANSISTOR   |               |        |                           |
| QF 08  | 2SC785 (HFE)   | TRANSISTOR   |               |        |                           |
| QF 09  | 2SC785 (HFE)   | TRANSISTOR   |               |        |                           |
| QF 10  | 2SC785 (HFE)   | TRANSISTOR   |               |        |                           |
| QF 11  | 2SC785 (HFE)   | TRANSISTOR   |               |        |                           |
| QF 12  | UN4213         | TRANSISTOR   |               |        |                           |
| QF 13  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 14  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 15  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 16  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 17  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 18  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 19  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 20  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 21  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 22  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 23  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 24  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 25  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 26  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 27  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 28  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 29  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 30  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 31  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 32  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 33  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 34  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 35  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 36  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 37  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 38  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 39  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 40  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 41  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 42  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 43  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 44  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 45  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 46  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 47  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 48  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 49  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 50  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 51  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 52  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 53  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 54  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 55  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 56  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 57  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 58  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 59  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 60  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 61  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 62  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 63  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 64  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 65  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 66  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 67  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 68  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 69  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 70  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 71  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 72  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 73  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 74  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 75  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 76  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 77  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 78  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 79  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 80  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 81  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 82  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 83  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 84  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 85  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 86  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 87  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 88  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 89  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 90  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 91  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 92  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 93  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 94  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 95  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 96  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 97  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 98  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 99  | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 100 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 101 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 102 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 103 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 104 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 105 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 106 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 107 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 108 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 109 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 110 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 111 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 112 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 113 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 114 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 115 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 116 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 117 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 118 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 119 | 2SD1302(S-T)   | TRANSISTOR   | S MUTE1       |        |                           |
| QF 120 | 2SD1302(S-T)   |              |               |        |                           |

| BLOCK NO. ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ |             |                 |              |           |              |
|-----------------------|-------------|-----------------|--------------|-----------|--------------|
| REF.                  | PARTS NO.   | PARTS NAME      | REMARKS      | PARTS NO. | PARTS NAME   |
|                       |             |                 |              |           | SUFFIX       |
| Q 014                 | 2SA933S(RS) | TRANSISTOR      |              | TC 01     | QAT3722-100M |
| Q 015                 | DTC124ES    | CARBON RESISTOR | 100K 5% 1/6W | TC 02     | QAT3722-200M |
| R 001                 | GRD161J-104 | CARBON RESISTOR | 47K 5% 1/6W  | TC 03     | QAT3722-300M |
| R 002                 | GRD161J-473 | CARBON RESISTOR | 1.0K 5% 1/6W | TC 04     | QAT3722-100M |
| R 004                 | GRD161J-102 | CARBON RESISTOR | 82K 5% 1/6W  | X 001     | V472124-A0   |
| R 005                 | GRD161J-823 | CARBON RESISTOR | 100 5% 1/6W  |           |              |
| R 006                 | GRD161J-103 | CARBON RESISTOR | 240 5% 1/6W  |           |              |
| R 008                 | GRD161J-241 | CARBON RESISTOR | 1.0K 5% 1/6W |           |              |
| R 009                 | GRD161J-102 | CARBON RESISTOR | 100 5% 1/6W  |           |              |
| R 010                 | GRD161J-101 | CARBON RESISTOR | 100 5% 1/6W  |           |              |
| R 011                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |              |
| R 012                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |              |
| R 013                 | GRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W |           |              |
| R 014                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |              |
| R 015                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |              |
| R 016                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |              |
| R 017                 | GRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W |           |              |
| R 018                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |              |
| R 019                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |              |
| R 020                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |              |
| R 021                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |              |
| R 022                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |              |
| R 024                 | GRD161J-331 | CARBON RESISTOR | 330 5% 1/6W  |           |              |
| R 025                 | GRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W |           |              |
| R 027                 | GRD161J-331 | CARBON RESISTOR | 330 5% 1/6W  |           |              |
| R 029                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |              |
| R 030                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |              |
| R 031                 | GRD161J-183 | CARBON RESISTOR | 18K 5% 1/6W  |           |              |
| R 032                 | GRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W  |           |              |
| R 033                 | GRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W |           |              |
| R 034                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |              |
| R 035                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |              |
| R 036                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |              |
| R 037                 | GRD161J-560 | CARBON RESISTOR | 56 5% 1/6W   |           |              |
| R 038                 | GRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W  |           |              |
| R 239                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |              |
| R 040                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |              |
| R 041                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |              |
| R 042                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |              |
| R 043                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |              |
| R 044                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |              |
| R 045                 | GRD161J-561 | CARBON RESISTOR | 560 5% 1/6W  |           |              |
| R 047                 | GRD167J-562 | CARBON RESISTOR | 5.6K 5% 1/6W |           |              |
| R 048                 | GRD161J-331 | CARBON RESISTOR | 330 5% 1/6W  |           |              |
| R 049                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |              |
| R 051                 | GRD161J-561 | CARBON RESISTOR | 560 5% 1/6W  |           |              |
| R 052                 | GRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W |           |              |
| R 053                 | GRD161J-471 | CARBON RESISTOR | 470 5% 1/6W  |           |              |
| R 054                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |              |
| R 055                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |              |
| R 056                 | GRD167J-332 | CARBON RESISTOR | 3.3K 5% 1/6W |           |              |
| R 057                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |              |
| R 058                 | GRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W  |           |              |
| T 001                 | VAT7F12-110 | 1FT             |              |           |              |
| T 002                 | VAT7A21-107 | 1FT             |              |           |              |

| BLOCK NO. ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ |             |                 |              |           |            |
|-----------------------|-------------|-----------------|--------------|-----------|------------|
| REF.                  | PARTS NO.   | PARTS NAME      | REMARKS      | PARTS NO. | PARTS NAME |
|                       |             |                 |              |           | SUFFIX     |
| Q 014                 | 2SA933S(RS) | TRANSISTOR      |              |           |            |
| Q 015                 | DTC124ES    | CARBON RESISTOR | 100K 5% 1/6W |           |            |
| R 001                 | GRD161J-104 | CARBON RESISTOR | 47K 5% 1/6W  |           |            |
| R 002                 | GRD161J-473 | CARBON RESISTOR | 1.0K 5% 1/6W |           |            |
| R 004                 | GRD161J-102 | CARBON RESISTOR | 82K 5% 1/6W  |           |            |
| R 005                 | GRD161J-823 | CARBON RESISTOR | 100 5% 1/6W  |           |            |
| R 006                 | GRD161J-103 | CARBON RESISTOR | 240 5% 1/6W  |           |            |
| R 008                 | GRD161J-241 | CARBON RESISTOR | 1.0K 5% 1/6W |           |            |
| R 009                 | GRD161J-102 | CARBON RESISTOR | 100 5% 1/6W  |           |            |
| R 010                 | GRD161J-101 | CARBON RESISTOR | 100 5% 1/6W  |           |            |
| R 011                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |            |
| R 012                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |            |
| R 013                 | GRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W |           |            |
| R 014                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |            |
| R 015                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |            |
| R 016                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |            |
| R 017                 | GRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W |           |            |
| R 018                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |            |
| R 019                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |            |
| R 020                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |            |
| R 021                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |            |
| R 022                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |            |
| R 024                 | GRD161J-331 | CARBON RESISTOR | 330 5% 1/6W  |           |            |
| R 025                 | GRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W |           |            |
| R 027                 | GRD161J-331 | CARBON RESISTOR | 330 5% 1/6W  |           |            |
| R 029                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |            |
| R 030                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |            |
| R 031                 | GRD161J-183 | CARBON RESISTOR | 18K 5% 1/6W  |           |            |
| R 032                 | GRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W  |           |            |
| R 033                 | GRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W |           |            |
| R 034                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |            |
| R 035                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |            |
| R 036                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |            |
| R 037                 | GRD161J-560 | CARBON RESISTOR | 56 5% 1/6W   |           |            |
| R 038                 | GRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W  |           |            |
| R 239                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |            |
| R 040                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |            |
| R 041                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |            |
| R 042                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |            |
| R 043                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |            |
| R 044                 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W  |           |            |
| R 045                 | GRD161J-561 | CARBON RESISTOR | 560 5% 1/6W  |           |            |
| R 047                 | GRD167J-562 | CARBON RESISTOR | 5.6K 5% 1/6W |           |            |
| R 048                 | GRD161J-331 | CARBON RESISTOR | 330 5% 1/6W  |           |            |
| R 049                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |            |
| R 051                 | GRD161J-561 | CARBON RESISTOR | 560 5% 1/6W  |           |            |
| R 052                 | GRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W |           |            |
| R 053                 | GRD161J-471 | CARBON RESISTOR | 470 5% 1/6W  |           |            |
| R 054                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |            |
| R 055                 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W |           |            |
| R 056                 | GRD167J-332 | CARBON RESISTOR | 3.3K 5% 1/6W |           |            |
| R 057                 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W |           |            |
| R 058                 | GRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W  |           |            |
| T 001                 | VAT7F12-110 | 1FT             |              |           |            |
| T 002                 | VAT7A21-107 | 1FT             |              |           |            |

## 14. Illustration of Packing and Parts List

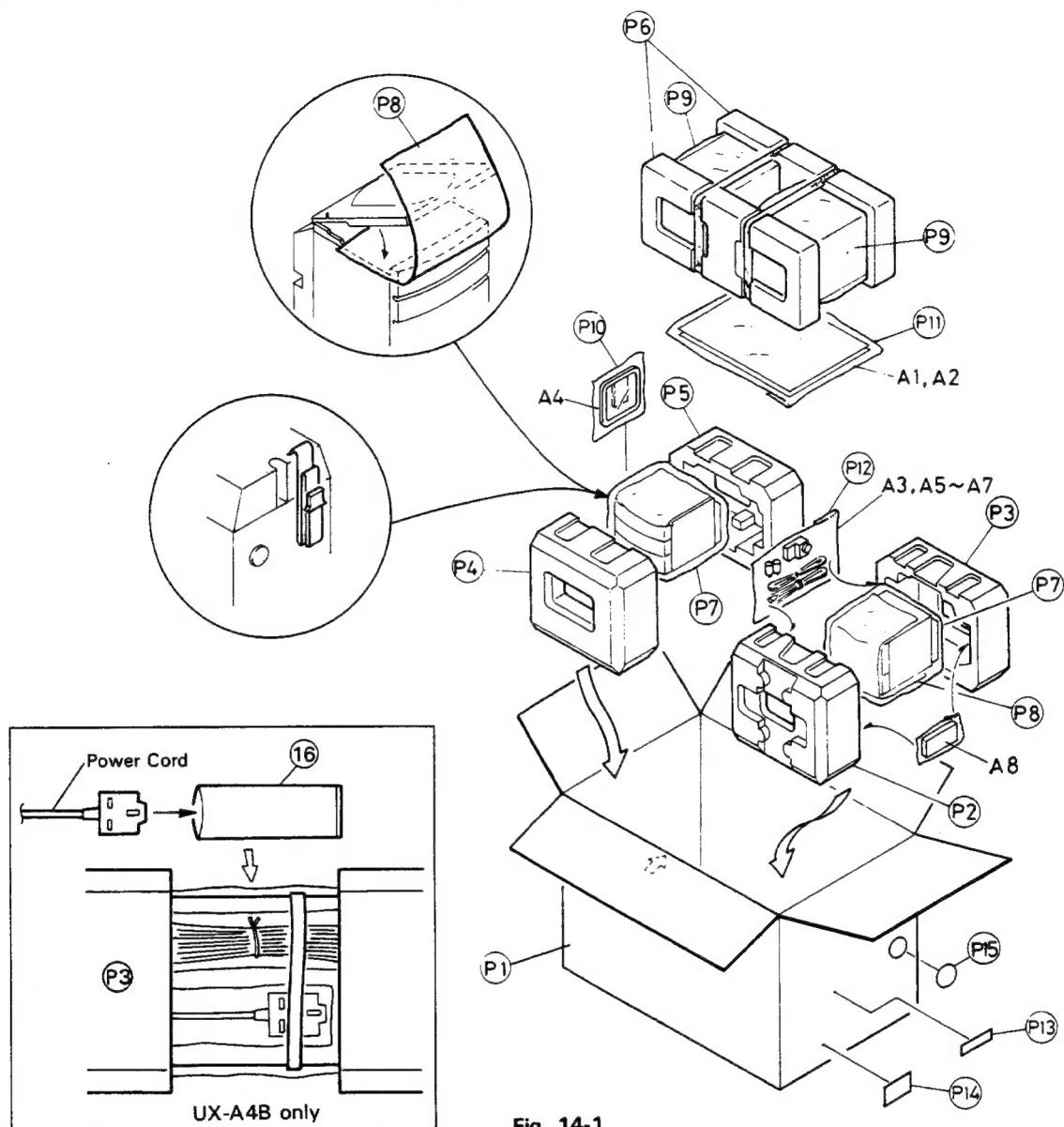


Fig. 14-1

BLOCK NO. M9MM

| A | REF. | PARTS NO.      | PARTS NAME      | REMARKS         | QTY | SUFFIX      | CLR |
|---|------|----------------|-----------------|-----------------|-----|-------------|-----|
| P | 1    | VPC9214-002    | CARTON          |                 | 1   |             |     |
| P | 2    | VPH1598-003    | CUSHION         | DECK:FRONT      | 1   |             |     |
| P | 3    | VPH1598-004    | CUSHION         | DECK:REAR       | 1   |             |     |
| P | 4    | VPH1599-001    | CUSHION         | CD:FRONT        | 1   |             |     |
| P | 5    | VPH1599-002    | CUSHION         | CD:REAR         | 1   |             |     |
| P | 6    | DH404-UX-A3    | SIDE CUSHION    | SPEAKER BOX ASY | 1   |             |     |
| P | 7    | VPE3005-065    | POLY BAG        | 300 X 510       | 2   |             |     |
| P | 8    | VPK4002-009    | SHEET           |                 | 2   |             |     |
| P | 9    | DH434-PC-X1000 | POLY BAG        | SPEAKER BOX ASY | 2   |             |     |
| P | 10   | VPE3005-042    | POLY BAG        | AM LOOP ANT     | 1   |             |     |
| P | 11   | VPE3005-007    | POLY BAG        | INSTRUCTIONS    | 1   |             |     |
| P | 12   | QPGAO10-03003  | POLY BAG        | ACCESSORIES     | 1   |             |     |
| P | 13   | VND3044-001    | SERIAL TICKET   |                 | 1   | GI, EN      |     |
| P |      | VND3044-004    | SERIAL TICKET   |                 | 1   | B           |     |
| P |      | VND3044-005    | SERIAL TICKET   |                 | 1   | G           |     |
| P | 14   | VND3044-003    | SERIAL TICKET   |                 | 1   | E           |     |
| P | 15   | VND3025-196    | BAR CODE LABEL  |                 | 1   | E, B, G, GI |     |
| P | 16   | QZLA001-011    | GRE.POINT LABEL |                 | 1   | E, G, EN    |     |
| P |      | QPGAO12-02505  | POLY BAG        | POWER CORD      | 1   | B           |     |

## 15. Accessories

BLOCK NO. MAMM1111

| A | REF. | PARTS NO.                                    | PARTS NAME                                   | REMARKS   | QTY         | SUFFIX                  | CLR |
|---|------|--|--|-----------|-------------|-------------------------|-----|
|   | A 1  | VNN9214-251S<br>VNN9214-271S<br>VNN9214-261S | INSTRUCTIONS<br>INSTRUCTIONS<br>INSTRUCTIONS |           | 1<br>1<br>1 | B, GI<br>EN<br>E, G, EN |     |
|   | A 2  | BT-20066A<br>BT-20135                        | WARRANTY CARD<br>WARRANTY CARD               |           | 1<br>1      | B, G<br>G               |     |
|   |      | BT20060<br>E43486-340B                       | WARRANTY CARD                                |           | 1           | B                       |     |
|   | A 3  | EWP502-001                                   | SAFETY SHEET                                 |           | 1           | B                       |     |
|   | A 4  | EQB4001-015                                  | FM ANTENNA                                   |           | 1           |                         |     |
|   | A 5  | VMP0093-002                                  | AM LOOP ANT<br>SPEAKER CORD                  |           | 2           |                         |     |
|   | A 6  | UM3HJ-2P                                     | BATTERY                                      | REMOCON   | 2           |                         |     |
|   | A 7  | EMZ2001-014                                  | ADAPTER                                      |           | 1           |                         |     |
|   | A 8  | VGR0023-101                                  | REMOCON UNIT                                 | RM-RX1001 | 1           |                         |     |